Received by OCD: 10/26/2023 2:11:23 PM

UICI-8-4

EPA FALL OFF TEST REPORT (WDW-4)

2023



Technical Report

MECHANICAL INTEGRITY AND RESERVOIR TESTING

CLASS I NON-HAZARDOUS DEEPWELL WELL NO. 4 (OCD UIC Permit: UICI-008-4) (API Number: 30-015-44677)

HollyFrontier Navajo Refining Company Artesia, New Mexico

Section 23, Township 17S, Range 27E 1217 FSL, 2443 FWL

October 2023

Petrotek Corporation 5935 South Zang Street, Suite 200 Littleton, Colorado 80127 Phone: (303) 290-9414 Fax: (303) 290-9580

2023 MECHANICAL INTEGRITY AND RESERVOIR TESTING CLASS I NON-HAZARDOUS DEEPWELL OCD UIC Permit: UICI-008-4 API Number: 30-015-44677

HollyFrontier Navajo Refining Company Artesia, New Mexico

TABLE OF CONTENTS

EXEC	UTIVE SUMMARY1
1.	FACILITY INFORMATION2
2.	WELL INFORMATION2
3.	CURRENT WELLBORE SCHEMATIC
4.	COPY OF AN ELECTRIC LOG ENCOMPASSING THE COMPLETED
	INTERVAL
5.	COPY OF RELEVANT PORTIONS OF ANY POROSITY LOG USED TO
	ESTIMATE FORMATION POROSITY2
6.	PVT DATA OF THE FORMATION AND INJECTION FLUID
7.	DAILY RATE HISTORY FOR A MINIMUM OF ONE MONTH PRECEDING THE
	FALLOFF TEST5
8.	CUMULATIVE INJECTION INTO THE FORMATION FROM TEST WELL
9.	PRESSURE GAUGES6
10.	ONE-MILE AREA OF REVIEW (AOR)
11.	GEOLOGY
12.	OFFSET WELLS
13.	CHRONOLOGICAL LISTING OF THE DAILY TESTING ACTIVITIES
14.	DESCRIBE THE LOCATION OF THE SHUT-IN VALVE USED TO CEASE
	FLOW TO THE WELL FOR THE SHUT-IN PORTION OF THE TEST
15.	PRESSURE FALLOFF ANALYSIS9
16.	INTERNAL MECHANICAL INTEGRITY



Tables

- Table 1 August and September Daily Injection Data
- Table 2 Wells P&A'd within AOR During Past Year
- Table 3 Falloff Test Analysis Input Values
- Table 4 Historical Ambient Reservoir Test Measurements
- Table 5 Annulus Pressure Test Measurements

Figures

- Figure 1 WDW-4 Wellbore Diagram
- Figure 2 WDW-4 Wellhead Diagram
- Figure 3 Silurian/Devonian Formation Structure Map
- Figure 4 Cartesian Plot of Pressure, Temperature and Rate vs. Time
- Figure 5 Full Rate History Plot
- Figure 6 Cartesian Plot of Pressure Falloff with Model Match
- Figure 7 Log-log Derivative Plot with Model Match
- Figure 8 Semi-log Horner Plot with Model Match
- Figure 9 Daily Injection Rate History for Month Prior to Test Plot
- Figure 10 Hall Plot
- Figure 11 One-mile AOR

Attachments

- Attachment 1 OCD Test Notification
- Attachment 2 Annulus Pressure Gauge Certification
- Attachment 3 Downhole Pressure Gauge Certification
- Attachment 4 FESCO Injection Falloff Test Report
- Attachment 5 Falloff Test Summary
- Attachment 6 AOR Well List
- Attachment 7 Digital Data



2023 MECHANICAL INTEGRITY AND RESERVOIR TESTING CLASS I NON-HAZARDOUS DEEPWELL OCD UIC Permit: UICI-008-4 API Number: 30-015-44677

HollyFrontier Navajo Refining Company Artesia, New Mexico



Report prepared by:

Petrotek Corporation Kenneth J. Cooper, P.E., New Mexico Reg. No. 14175 5935 South Zang Street, Suite 200 Littleton, Colorado 80127



EXECUTIVE SUMMARY

This report summarizes the successful mechanical integrity testing (MIT) and falloff testing activities performed on WDW-4 at the HollyFrontier Navajo Refining Company (HFNR) facility in Artesia, New Mexico. The work was performed as a condition of the applicable UIC permit issued by the New Mexico Oil Conservation Division (OCD). Under contract, Petrotek Corporation (Petrotek) developed the MIT procedures, provided field supervision, completed pressure transient test analysis, and prepared the final report documenting the fieldwork on the Class I non-hazardous injection well.

The test procedures were submitted to the OCD headquarters and OCD District II on April 27, 2023, before field activities commenced. Attachment 1 presents the test notification and procedures submitted to OCD. Approvals were received from regulatory agency staff prior to commencement of activities. No OCD personnel were present to witness testing. field activities were supervised by Jeremiah Demuth (Petrotek).

The field activities consisted of an annulus pressure test (APT) and an injection falloff test on WDW-4. The well satisfactorily demonstrated mechanical integrity pursuant to the applicable UIC permit, guidelines and regulations. All MIT requirements were satisfied as a result of the work performed. Wellbore and reservoir properties were confirmed as similar to those determined from analysis of the previous testing conducted in the well.



1. FACILITY INFORMATION

- a. Name HollyFrontier Navajo Refining Company
- b. Location Highway 82 East, Artesia, New Mexico, 88211
- c. Operator's Oil And Gas Remittance Identifier (GRD) Number 15694

2. WELL INFORMATION

- a. **OCD UIC Permit number authorizing injection** OCD UIC Permit: UICI-008-4
- b. Well classification Class I Non-hazardous
- c. Well name and number WDW-4
- d. **API Number -** 30-015-44677
- e. Legal Location Section 23, Township 17S, Range 27E, 1217 FSL, 2443 FWL

3. CURRENT WELLBORE SCHEMATIC

A wellbore schematic displaying the well configuration during testing is provided as Figure 1. A current wellhead schematic is provided as Figure 2.

4. COPY OF AN ELECTRIC LOG ENCOMPASSING THE COMPLETED INTERVAL

A copy of the dual induction log run in 2018 during the completion of the well was submitted with the original permit and can be found online on the OCD website as part of the OCD well files for this well.

5. COPY OF RELEVANT PORTIONS OF ANY POROSITY LOG USED TO ESTIMATE FORMATION POROSITY

A copy of the neutron density log, encompassing the completed interval between 10,307 and 10,680 feet BGL, can be found online on the OCD website as part of the well files for this well. From these logs, it was determined that the injection reservoir thickness is approximately 330 feet with an average porosity of 25 percent. Consistent with the most recent test analysis previously submitted, these values were used for the analysis performed on data collected this year and presented in this report.



6. PVT DATA OF THE FORMATION AND INJECTION FLUID

Formation fluid samples of connate brine from the injection interval were not collected from the WDW-4 during drilling and completion. Therefore, the average total dissolved solids (TDS) of the formation fluid is estimated to be 25,000 mg/l per the previously submitted and approved UIC permit application based on data acquired from offset wells, and consistent with the initial falloff test analysis from 2018.

The formation viscosity, fluid compressibility, and total compressibility were estimated using this average brine salinity along with the bottom hole temperature and pressure recorded in the well at the depth of the injection zone in conjunction with industry standard correlations. These correlations are presented in the SPE textbook on Pressure Transient Testing which was published as part of the SPE Textbook Series as Volume 9. For the sake of brevity, only page, equation, and figure numbers from this volume are listed subsequently in this report as a reference for all correlations presented for the PVT data.

The percent solids for the fluid was approximated as 2.5%, based on the average 25,000 mg/I TDS brine concentration discussed above. A bottom hole temperature of 159 °F has been used as representative of the formation for these correlations. This value was derived from the original temperature log, run in 2018 when the well was completed. This log is can be found online on the OCD site as part of the WDW-4 well files.

Fluid viscosity was estimated using multiple equations developed by McCain that first are used to estimate fluid viscosity at atmospheric conditions (equations B-72, 73, and 74), which is then converted to viscosity at bottom hole conditions (equation B-75) by using a correction factor. These equations can be found on page 527. As a primary input for the correlation, pressure is required. The formation pressure has been estimated at a depth of 10,307 feet BGL using the average formation fluid specific gravity based on the TDS value discussed above. Using this method, a value of 4,574.5 psi has been estimated as the pressure at the depth the gauges were set at for testing (10,307 feet BGL). At this pressure and a temperature of 159 °F, the following equations have been used to derive viscosity:

$$\mu_{w1} = AT^B \tag{B-72}$$

$$A = 109.574 - 8.40564 * S + 0.313314 * S^{2} + 8.72213 * 10^{-3} * S^{3}$$
(B-73)

$$B = -1.12166 + 2.63951 * 10^{-2} * S - 6.79461 * 10^{-4} * S^2 - 5.47119 * 10^{-5} * S^3$$

+
$$1.55586 * 10^{-6} * S^4$$
 (B-74)

$$\frac{\mu_w}{\mu_{w_1}} = 0.9994 + 4.0295 * 10^{-5} * P + 3.1062 * 10^{-9} * P^2$$
(B-75)

Where,



 μ_{w1} is the viscosity of the formation fluid at atmospheric conditions T_F is the bottom hole temperature in °F S is the percent of solids P is the bottom hole pressure in psi μ_w is the viscosity of the brine at bottom hole conditions

Using these equations, a value of 0.47 centipoise is calculated for the formation fluid viscosity.

Formation Compressibility was estimated using equation L-89 provided on page 337. This equation was developed for limestone formations, which is consistent with the primary composition of the effective injection interval (see discussion in Section 11).

$$cf = \frac{a}{(1+bc\phi)^{\frac{1}{b}}} \tag{L-89}$$

Where,

Based on this equation, a value of 3.50E-6 psi⁻¹ is derived for formation compressibility.

Fluid compressibility was estimated using figures L-30 and L-31 on page 338 with a bottom hole temperature of 159 °F, a bottom hole pressure of 4,574.5 psi, and a dissolved solids weight of 2.5%. Using Figure L-31 to first estimate freshwater compressibility, a value of 2.86E-06 psi⁻¹ is derived. Using Figure L-30, the coefficient of isothermal compressibility (ratio of brine compressibility over freshwater compressibility) was determined to be approximately 0.95. This results in a value of 2.70E-06 psi⁻¹ for the formation fluid compressibility (c_w).

By combining the formation and formation fluid compressibility, the total system compressibility is determined. The total system compressibility (c_t) is approximately 6.20E-06 psi⁻¹.

The specific gravity of the test fluid, based on the static gradient survey performed at the end of the test, was 1.003 (gradient of 0.434 psi/ft) with a measured temperature during injection of 103.2 °F. Using Equations L-84 through L-87, the viscosity of the injected fluid at bottom hole conditions at the wellbore during injection is 0.76 cp. The compressibility of the injected fluid (based on Figures L-30 and 31) is 2.78E-06 psi⁻¹.

The values presented in this section have been utilized for analysis unless stated otherwise.



7. DAILY RATE HISTORY FOR A MINIMUM OF ONE MONTH PRECEDING THE FALLOFF TEST

The following table summarizes recent data acquired with HFNR well monitoring equipment for the month prior to and the month that testing was conducted.

Date	Injection Pressure (psi)	Injection Rate (gpm)	Annulus Pressure (psi)
8/1/2023	240.28	171.57	188.11
8/2/2023	309.86	306.37	285.11
8/3/2023	293.11	282.92	297.12
8/4/2023	302.87	294.71	344.11
8/5/2023	308.99	300.49	338.65
8/6/2023	312.12	307.19	259.29
8/7/2023	322.54	319.44	196.82
8/8/2023	311.29	302.89	179.86
8/9/2023	315.18	307.10	178.14
8/10/2023	307.77	295.06	197.19
8/11/2023	281.95	258.71	165.76
8/12/2023	291.79	274.17	163.97
8/13/2023	314.15	304.09	268.06
8/14/2023	298.75	278.15	288.76
8/15/2023	285.87	261.27	251.86
8/16/2023	305.99	291.47	183.03
8/17/2023	313.00	303.07	116.53
8/18/2023	308.16	294.96	138.94
8/19/2023	314.36	300.38	217.98
8/20/2023	310.26	294.28	257.06
8/21/2023	302.23	286.58	231.74
8/22/2023	302.45	286.33	260.06
8/23/2023	305.55	288.32	292.96
8/24/2023	310.69	294.52	278.50
8/25/2023	320.46	302.66	360.52
8/26/2023	316.24	295.97	391.60
8/27/2023	309.05	289.58	380.34
8/28/2023	305.31	286.04	327.42
8/29/2023	311.78	295.91	256.02
8/30/2023	343.81	332.52	253.67
8/31/2023	349.04	339.95	265.38
9/1/2023	354.27	347.38	277.09
9/2/2023	309.66	293.37	163.93
9/3/2023	326.62	319.31	157.87
9/4/2023	314.26	304.39	120.55

TABLE 1AUGUST AND SEPTEMBER INJECTION DATA



Date	Injection Pressure	Injection Rate	Annulus Pressure
	(psi)	(gpm)	(psi)
9/5/2023	307.71	297.11	121.00
9/6/2023	303.62	289.51	108.53
9/7/2023	273.04	249.25	88.38
9/8/2023	262.63	208.69	86.54
9/9/2023	317.67	321.22	130.55
9/10/2023	316.74	320.90	145.12
9/11/2023	309.40	310.06	149.70
9/12/2023	306.41	307.10	105.27
9/13/2023	313.35	318.24	102.64
9/14/2023	300.63	299.55	95.04
9/15/2023	300.77	298.08	101.25
9/16/2023	371.11	389.08	112.32
9/17/2023	373.65	391.20	117.57
9/18/2023	337.92	343.57	128.43
9/19/2023	294.99	285.43	148.79
9/20/2023	300.48	292.43	147.42
9/21/2023	298.04	288.82	127.79
9/22/2023	299.01	287.52	151.32
9/23/2023	308.97	297.54	177.86
9/24/2023	318.09	312.76	168.48
9/25/2023	307.96	297.88	152.24

8. CUMULATIVE INJECTION INTO THE FORMATION FROM TEST WELL

At the time of shut-in for testing the cumulative volume of waste injected into this well since operations began, based on OCD records and HFNR data, is 598,049,117 gallons (14,239,265 bbls).

9. PRESSURE GAUGES

- a. Describe the type of downhole surface pressure readout gauge used included manufacturer and type Two downhole pressure and temperature memory gauges were utilized for the falloff testing. The gauges were 1.25-inch Quartz pressure and temperature memory gauges manufactured by DataCan (Part No. 101696).
- b. List the full range, accuracy and resolution of the gauge(s) The memory gauges are designed to measure pressure to an accuracy of 0.03% of full scale and a resolution of 0.01% of full scale, and operate within a range of 14.7 to 10,000 psi.
- c. Provide the manufacturer's recommended frequency of calibration and a calibration certificate showing the date the gauge was last calibrated These gauges are recommended to be calibrated once per year. These gauges were last calibrated on 3/10/2022. The most recent calibration certificates are



provided in Attachment 3. The bottom gauge (Serial Number - 224831) was utilized for analysis and hung at a test depth of 10,327 feet KB. The data for both gauges run during testing yielded consistent data and indicate that representative data was collected.

10. ONE-MILE AREA OF REVIEW (AOR)

A standard one-mile Area of Review (AOR) was evaluated for WDW-4 as part of the annual testing and reporting requirements. This evaluation was performed by Federal Abstract Company. The wells located within this one-mile AOR are listed in Attachment 6. This table includes a listing of the operator, well name, API number, well type, well status, location, and date of abandonment or completion. A figure displaying the wells located in the AOR and the wells in the surrounding sections has been provided as Figure 13.

Based on the data review, no new wells have been drilled within the AOR in the last year. Two wells, listed in Table 2, have been newly plugged and abandoned within the AOR in the last year. Neither well penetrates the WDW-4 confining interval.

Operator	Well Name	API	Well Type	TVD (ft)	Lat Long	P&A Date
Spur Energy Partners LLC	ARCO B FEDERAL COM #001	30-015-21047	Gas	9,740	32.80350 -104.25590	1/18/2023
Redwood Operating LLC	MATTHEWS 25 FEDERAL #001	30-015-40804	Oil	4,705	32.80650 -104.23980	5/2/2023

TABLE 2WELLS P&A'd WITHIN AOR DURING THE PAST YEAR

- a. Wells Located Within the One-mile AOR The wells located within the onemile AOR are provided as Attachment 6. This table shows the operator, well name, API number, well type, well status, location, and date of abandonment or completion.
- b. **Status of Wells Within AOR -** In Attachment 6, the abbreviation SWD indicates Salt Water Disposal, P&A indicates Plugged and Abandoned, TA indicates Temporarily Abandoned, and AL indicates Abandoned Location. The "new" well status represents permitted wells that have not been drilled or completed.
- c. Provide details on any offset producers and injectors completed in the same injection interval Based on public data, there is one well that has been completed in the same formation as WDW-4 within the one-mile AOR. This well is the Alamo Permian Resources, LLC Berry Federal #029, which was plugged and abandoned in 2013. No active offset producers or injectors exist in the injection interval within the AOR based on public data.



11. GEOLOGY

- a. Describe the geologic environment of the injection interval
- b. Discuss the presence of geologic features, i.e., pinchouts, channels and faults, if applicable
- c. Provide a portion of a relevant structure map, if necessary

The following discussion provides responses to the requirements listed above. This discussion is primarily based on information presented in the previous permit application for this well.

The WDW-4 well is located in Eddy County, New Mexico on the Northwest Shelf of the Permian Basin. The injection interval is undifferentiated Silurian-Devonian age strata composed of shallow water carbonates, dolostone and limestones. The confining zone is comprised of the upper Devonian Woodford Formation and the overlying undifferentiated Mississippian strata.

Based on the WDW-4 drilling report, the top of the Silurian-Devonian injection zone is at a depth of approximately 10,220 feet KB. A structure map of the top of the Silurian-Devonian is provided in Figure 3. The gross thickness of the Silurian-Devonian is approximately 665 feet thick. The top of the injection zone is over 1,000 feet below the base of the injection zone in which the three other Class I wells (WDW-1, WDW-2, and WDW-3) operated by HFNR are completed. These three wells are completed in the lower portion of the Permian age Wolfcamp Formation and the underlying Pennsylvanian age Cisco and Canyon Formations. The geologic interpretations have been confirmed but not revised as part of this report.

12. OFFSET WELLS

There is one well that was completed in the same formation as WDW-4 within the AOR. As noted in 10.c, this well is the Alamo Permian Resources, LLC Berry Federal #029. This well was plugged and abandoned in 2013.

- a. Identify the distance between the test well and any offset wells completed in the same injection interval – The Berry Federal #029 well was located approximately 2,000 feet to the north of WDW-4.
- b. Report the status of the offset wells during both the injection and shut-in portions of the test The offset Berry Federal #029 well was plugged and abandoned in 2013.
- c. Describe the impact, if any, of the offset wells during both the injection and shut-in portions of the test - There was no impact on the character of the falloff test or the development of a useful test from wells identified in the AOR. A discussion of possible late-time effects is included in Section 15 of this report.



13. CHRONOLOGICAL LISTING OF THE DAILY TESTING ACTIVITIES

- a. Date of the test Testing was performed from September 26 28, 2023.
- b. **Time of the injection period -** Continuous injection occurred for approximately 48 hours before the falloff test began. This injection period exceeded the duration of the falloff. Figure 6 presents the test history.
- c. Type of injection fluid Filtered waste was utilized as test injection fluid.
- d. Final injection pressure and temperature prior to shutting in the well -Prior to shutting in the well, the bottom hole injection pressure was 4,698.5 psia (at 10,307 feet BGL) and the injection rate was 287.7 gpm (9,862.4 bwpd) with a measured bottom hole temperature of 109.8 °F.
- e. Total shut-in time The well was shut-in for approximately 30 hours for testing.
- f. **Final static pressure and temperature at the end of the falloff portion of the test -** At the conclusion of the test, the final bottom hole pressure was 4,678.1 psia and the final bottom hole temperature was 121.1 °F.

14. DESCRIBE THE LOCATION OF THE SHUT-IN VALVE USED TO CEASE FLOW TO THE WELL FOR THE SHUT-IN PORTION OF THE TEST

The well was shut-in using a wing valve located on the inlet side of the wellhead.

15. PRESSURE FALLOFF ANALYSIS

This section addresses requirements 15-20 of Section IX, Report Components, of the OCD falloff test guidelines.

The equations, parameters and calculations utilized to derive these values are detailed further in the following discussion. Table 3 contains input values used to perform the specified calculations.

The raw digital data collected during the test is provided in Attachment 7. The contracted service company whose gauges were utilized for testing generated an injection falloff test summary report based on this collected data. This report is provided in Attachment 4.

- a. **Radius of test investigation -** The radius of investigation for this test was determined to be 10,790 feet based on the average permeability derived from test analysis.
- b. **Time to beginning of the infinite acting portion of the test -** The time at which the test began to transition into radial flow was approximately 0.10 hours after shut-in. This value was derived from the log-log plot.
- c. Slope(s) determined from the semi-log plot The slope for the likely middle-



time radial period, as determined from the semi-log plot, was 1.01915 psi/cycle.

- d. **Transmissibility (kh/μ) -** The transmissibility was determined to be 1,573,489 md-ft/cp.
- e. Permeability (k) The permeability was determined to be 2,241 md.
- f. Skin Factor (s) The skin factor was determined to be 9.0 units.
- g. Pressure drop due to skin (ΔP_{skin}) The pressure drop due to skin was determined to be 8.0 psi
- h. Flow efficiency The flow efficiency was determined to be 0.61.
- i. **Flow capacity (kh)** The flow capacity (permeability-thickness) was determined to be 739,540 md-ft.
- j. **P**_{1hr} The extrapolated 1-hr pressure was determined to be 4,683.2 psi.



Parameter	Value	Unit
Formation Thickness, h	330	feet
Porosity, Φ	25	percent
Viscosity, µ	0.47	centipoise
Formation Compressibility, c _f	3.50E-06	1/psi
Total Compressibility, c _t	6.20E-06	1/psi
Formation Volume Factor, B	1.00	bbl/stb
Wellbore Radius, r _w	0.3532	feet
Final Well Flowing Pressure, p _{wf}	4,698.5	psia
Final Injection Date of 9,	9,862.4	bwpd
	287.7	(gpm)
Horner Straight Line Slope, m	1.01915	psi/cycle

TABLE 3FALLOFF TEST ANALYSIS INPUT VALUES

The average historical injection period used to account for total volume in the analysis was calculated by dividing the cumulative historical injection through 8/1/2020 (4,573,230 barrels) by the final injection rate (142.4 gpm). This resulted in a value of 22,475.7 hours. This value of 22,475.7 hours of injection at 142.4 gpm was used in conjunction with the injection data collected from 8/1/2020 through 9/26/23. The total waste volume injected up to the time of shut-in utilized for calculations was 598,049,117 gallons (14,239,265 bbls).

To determine the mobility-thickness (transmissibility), the following equation was utilized. The resulting transmissibility was 1,573,489 md-ft/cp.

$$\frac{kh}{\mu} = 162.6 \frac{q_{final}B}{m}$$

Where,

k is the permeability, in md h is the formation thickness, in feet μ is the viscosity of the formation fluid, in cp q is the final flow rate, in bpd B is the formation volume factor in RB/STB m is the slope of the line assigned to the radial flow period on the semi-log plot, in psi/cycle and 162.6 is a unit conversion constant

$$\frac{kh}{\mu} = Transmissibility = 162.6 \frac{9,862.4 * 1.0}{1.01915} = 1,573,489 \frac{md - ft}{cp}$$

The transmissibility derived from the slope of the semi-log straight line was then used to determine the permeability thickness. The resulting permeability-thickness was 739,540 md-ft.



$$kh = \left(\frac{kh}{\mu}\right)\mu = 1,573,489\left(\frac{md - ft}{cp}\right)0.47 \ cp = 739,540 \ md - ft$$

This permeability-thickness was then used to determine the permeability of the reservoir. The resulting permeability was 2,241 md.

$$k = \frac{kh}{h} = \frac{739,540 \ md - ft}{330 \ ft} = 2,241 \ md$$

In order to determine if the appropriate viscosity was utilized in the previous calculations, it must be determined if the pressure transient was traveling through reservoir fluids. This is done by determining the time it is expected to take the pressure transient to travel through the injected fluid. The first step of this is to determine the radius of waste emplaced by injection. The piston-like displacement radius was estimated to be 555 feet.

$$r_{waste} = \sqrt{\frac{0.13368 * V}{\pi h \Phi}}$$

Where,

 r_{waste} is the distance to the waste front, in feet V is the total volume of fluid injected into the well, in gallons h is the formation thickness, in feet Φ is the porosity, as a fraction 0.13368 is a conversion constant

$$r_{waste} = \sqrt{\frac{0.13368 * (598,049,117)}{\pi * 330 * 0.25}} = 555 \, feet$$

Based on this radius, the time for a pressure transient to travel through this fluid can be calculated. The resulting time was approximately 0.10 hours.

$$t_{waste} = 948 \frac{\Phi \mu_{waste} c_t r_{waste}^2}{k}$$

Where,

 $t_{waste} \text{ is the time for a pressure transient to reach the waste front, in hours } \Phi \text{ is the porosity, as a fraction} \\ \mu_{waste} \text{ is the viscosity of the waste, in cp} \\ r_{waste} \text{ is the radius of the waste front, in feet} \\ c_t \text{ is the total compressibility, in psi^-1}$



> k is the permeability, in md 948 is a conversion constant

$$t_{waste} = 948 \frac{0.25 * 0.47 * 6.2E - 06 * (555)^2}{2,241} = 0.10 \ hours$$

Based on this result, and the time it took for the transition to radial flow to begin (\sim 0.10 hours), it is likely that the pressure transient was dominated by reservoir fluid properties during the subsequent middle-time radial flow period, indicating that the appropriate viscosity was used for the evaluation.

The near wellbore damage, referred to as skin, can be calculated based on the results of the straight line, semi-log analysis as well. This is done by utilizing the following equation. The result of this calculation was a skin of 9.0 units.

$$s = 1.151 \left(\frac{P_{wf} - P_{1hr}}{m} - \log\left(\frac{k}{\Phi\mu c_t r_w^2}\right) + 3.23 \right)$$

Where,

s is skin damage, in units P_{wf} is the shut-in well pressure, in psi P_{1hr} is the extrapolated pressure at a time of 1 hour, using the slope of the straight line from the semi-log analysis, in psi m is the slope of the radial line, in psi/cycle k is the permeability, in md Φ is the porosity, as a fraction μ is the viscosity, in cp r_w is radius of the wellbore in feet 1.151 and 3.23 are constants

$$s = 1.151 \left(\frac{4,698.5 - 4,683.2}{1.01915} - log \left(\frac{2,241}{0.25 * 0.47 * 6.2E - 06 * 0.3532^2} \right) + 3.23 \right) = 9.0$$

The pressure contribution of the skin term to wellbore pressure can be calculated using the following equation. The result of this calculation was 8.0 psi of pressure due to skin.

$$\Delta P_{skin} = 0.869 * m * s$$

Where,

 ΔP_{skin} is the change in pressure due to skin, in psi m is slope of the radial line, in psi/cycle s is skin, in units 0.869 is a conversion constant



$$\Delta P_{skin} = 0.869 * 1.01915 * 9.0 = 8.0 \, psi$$

The flow efficiency (FE) can be determined using the following equation, provided within the OCD Guidelines (Section IX, 15, h). The result of this calculation was 0.61.

$$FE = \frac{P_{wf} - \Delta P_{skin} - P_{end of test}}{P_{wf} - P_{end of test}}$$

Where,

 P_{wf} is the shut-in well pressure, in psi ΔP_{skin} is the change in pressure due to skin damage, in psi $P_{end of test}$ is the pressure at the end of the falloff test, in psi

$$FE = \frac{4,698.5 - 8.0 - 4,678.1}{4,698.5 - 4,678.1} = 0.61$$

The test radius of investigation (r_{inv}) can be determined using the following equation. The result of this calculation was 10,790 feet.

$$r_{inv} = 0.029 \sqrt{\frac{kt}{\Phi \mu c_t}}$$

Where,

k is permeability, in md t is time, in hours Φ is porosity, as a fraction μ is viscosity, in cp ct is total compressibility, in psi⁻¹ 0.029 is a constant

$$r_{inv} = 0.029 \sqrt{\frac{2,241 * 30}{0.25 * 0.47 * 6.2E - 06}} = 10,790 \text{ feet}$$

Based on examination of the log-log diagnostic plot provided as Figure 7, is it evident that early-time data is dominated by wellbore storage. It is likely that the test was transitioning into radial flow approximately 0.1 hours after well shut-in. Middle-time data suitable for semi-log analysis lasts from approximately 0.10 to 0.25 hours after shut-in. The test has been analyzed using the analytical Horner semi-log method based on the reasonable assumption that a period of radial flow exists in the data). Figure 8 presents the semi-log plot of the falloff with a line consistent with the likely radial flow period denoted in Figure 7. Subsequent to the



> end of the radial-flow period, a late-time period develops. It is possible that heterogeneity or boundary effects cause the late-time non-radial behavior. A simulation analysis was conducted to generate a best-fit model of the data. This analysis implies that one system configuration that can account for the pressure behavior is the possible presence of two intersecting limited-flow heterogeneities, both located at a distance of approximately 983 feet from the injector. This is not a unique analysis and it may be possible to have offset pressure interference generate some of this behavior. The simulation analysis generally supports the more simplistic graphical analysis that relies upon the semi-log slope to derive a permeability-thickness during the middle-time period of the data more likely to be dominated by radial flow.

> The character of the fall-off data and the derivative are similar to the patterns evident in previous testing of this well and are consistent with a large permeability-thickness and a small skin factor.

The following figures are provided illustrating the test analysis and results:

- Figure 4 Cartesian Plot of Pressure, Temperature and Rate vs. Time
- Figure 5 Full Rate History Plot
- Figure 6 Cartesian Plot of Pressure Falloff with Model Match
- Figure 7 Log-log Derivative Plot with Model Match
- Figure 8 Semi-log Horner Plot with Model Match
- Figure 9 Daily Injection Rate History for Month Prior to Test Plot
- Figure 10 Hall Plot

As specified by OCD requirements, a Hall Plot (Figure 10) generated from the data presented in Table 1 over the month leading up to the falloff test this year is included. It is noted that this plot of a limited elapsed time of the Hall function is a simplistic presentation based on correcting average daily wellhead pressures to bottomhole conditions based on hydrostatic head and tubing friction loss. The plot has been made with these BHP values rather than a pressure change (or dp) that would be generated by subtracting original reservoir pressure from the injection pressure value. Because this BHP value is used, the Hall plot slope is not proportional to other indicators, but qualitatively can yield insight to well conditions based on changing slopes. Further, consistent with the Hall method, it is assumed that the reservoir is homogenous and isotropic, that none of the average daily pressures are impacted by transient flow (relatively continuous, constant rate injection took place), and that no offset wells are impacting pressure at this well during the time that the Hall function has been plotted. The slope of the data is fairly linear, and this linearity is consistent with no significant changes in well condition taking place during this time period. Based on this observed linear trend, there are no current concerns noted with regard to well or reservoir performance. Attachment 5 presents a summary of the falloff test.



Table 4 summarizes historical well test analysis results, including the results from the test this year.

Year	Fill Depth (feet)	Permeability (md)	Mobility- thickness (md-ft/cp)	Skin (units)	P* (psia)
2023	10,578	2.241	1,573,489	9.0	4,678.5
2022	10,662	3,018	2,118,788	38.5	4,613.5
2021	10,310	4,134	2,902,490	6.6	4,600.9
2020	10,448	2,474	1,569,774	-1.9	4,579.0
2018	N/A	6,642	3,845,360	-3.5	4,520.4

TABLE 4HISTORICAL AMBIENT RESERVOIR TESTING

The raw data generated by the test will be kept on file by HFNR for a period not less than five years. The raw data has been provided as a part of this report, with additional files available upon OCD request.

16. INTERNAL MECHANICAL INTEGRITY

On September 26, the annulus was pressured to 566.5 psi to begin the mechanical integrity test. A calibrated digital pressure gauge (Crystal XP2i, 5,000 psi, SN - 901241) supplied by Petrotek was installed on the annulus at the wellhead. The well and test gauge were then isolated from the rest of the system and annulus pressure, injection pressure and injection rate were then monitored for a period of thirty minutes at 5-minute intervals. During the Part I internal mechanical integrity test the pressure decreased by 5.4 psi. Since a change of 10% (56.7 psi) of the starting test pressure is allowable, this test is within acceptable specifications. Attachment 2 presents a copy of the gauge certification. Pressures were observed as follows during testing.

Time, 0 5 20 10 15 25 30 Minutes Pressure, 566.5 564.0 563.0 562.3 561.4 561.8 561.1 Psi

 TABLE 5

 ANNULUS PRESSURE TEST MEASUREMENTS



FIGURES



•





OCD UIC Permit: UICI-008-4 Well API Number: 30-015-44677 Eddy County, New Mexico Sec. 31, T17S-R27E Lat. 32,81581° / Long. -104,25003° (NAD)





Adapted from HollyFrontier Navajo Refining LLC, Artesia, New Mexico, Published Structure Map, Top of Siluro-Devonian by WSP Parsons Brinckerhoff, Figure 8.





Figure 3 Silurian-Devonian Formation Structure Map 2023 FOT/MIT Report



Date: October 2023 By: WEK Checked: LW



5935 South Zang Street, Suite 200 Littleton, Colorado 80127 USA 303-290-9414

Received by OCD: 10/26/2023 2:11:23 PM





Released to Imaging: 11/3/2023 2:26:19 PM

Figure 4 Cartesian Plot of Rate, Pressure and Temperature vs Time 2023 Well Testing



Page 26 of 76





Figure 5 Full Rate History 2023 Well Testing







Figure 6 Cartesian Plot of Pressure Falloff with Model Match 2023 Well Testing







Figure 7 Delta-p/Derivative Plot with Model Match 2023 Well Testing







Figure 8 Semi-Log Horner Plot with Model Match 2023 Well Testing







Figure 9 Daily Average Injection Rates 2023 Well Testing







Figure 10 Hall Plot 2023 Well Testing





33 of 76

ATTACHMENTS



.

Attachment 1 OCD Test Notification



District I - (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240 District II District II - (575) 748-1283 811 S. First St., Artesia, NM 88210 District III District III - (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410 District IV - (505) 476 - 2460	 State of New Mexico Energy, Minerals and Natural Resources OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe. NM 87505 	Page 36 of 7 Form C-103 Revised July 18, 2013 WELL API NO. 30-015-44677 5. Indicate Type of Lease STATE STATE FEE 6. State Oil & Gas Lease No
<u>District 1V</u> – (305) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505		NM0255527A
SUNDRY NOTICES (DO NOT USE THIS FORM FOR PROPOSALS DIFFERENT RESERVOIR. USE "APPLICATIC PROPOSALS.)	AND REPORTS ON WELLS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DN FOR PERMIT" (FORM C-101) FOR SUCH	7. Lease Name or Unit Agreement Name WDW-4
1. Type of Well: Oil Well Gas 2. Name of Operator HF SINCLAIR NAVAJO REFINERY I	Well Other: INJECTION WELL	9. OGRID Number: 15694
3. Address of Operator P.O. Box 159, Artesia, NM 88210		10. Pool name or Wildcat Silurian - Devonian
4. Well Location Unit Letter K 1319	feet from the SOUTH line and 2,493	feet from the WEST line
Section 23	Township 17S Range 27E . Elevation (Show whether DR, RKB, RT, GR, etc.)	NMPM County: EDDY

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK 🗌 PLUG AND ABANDON 🗌	REMEDIAL WORK ALTERING CASING
TEMPORARILY ABANDON CHANGE PLANS	COMMENCE DRILLING OPNS. P AND A
PULL OR ALTER CASING DULTIPLE COMPL	CASING/CEMENT JOB
DOWNHOLE COMMINGLE	
CLOSED-LOOP SYSTEM	
OTHER: PRESSURE FALLOFF TEST / MIT	OTHER:

 Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

July 16, 2023; Day 1: Begin constant-rate injection (+/- 10%) into WDW-4 as well as the three (3) offset wells for at least 30 hours prior to shut-in of WDW-4 for falloff testing. Target rate for WDW-4 is approximately 160 gpm. Wellhead pressure will not exceed 1,400 psig. Plant personnel will record rate, volume and pressure during the constant-rate injection period to ensure steady flow for analysis. Samples of the injectate will be collected approximately every 10 hours and analyzed for pH and specific gravity.

July 17, 2023; Day 2: Continue constant-rate injection into all four (4) wells.

July 18, 2023; Day 3: While injection continues, run dual downhole memory gauges to test depth making flowing gradient stopes every 1,000 feet. Collect pressure data at test depth for at least 1 hour while injecting at constant rate. Shut in WDW-4 and collect falloff data for a minimum of 30 hours. WDW-1, WDW-2 and WDW-3 will continue injection at constant rate until downhole memory gauges are pulled from WDW-3.

July 19, 2023; Day 4: WDW-4 will remain shut-in while collecting falloff pressure data using downhole memory gauges.

July 20, 2023; Day 5: After a minimum of 30 hours of falloff data collection, remove gauges from the well making 5-minute gradient stops every 1,000 feet. Note the top of fill will be tagged either with gauges prior to pulling from the well, or on a second run with sinker bars after gauges are removed (TBD). Conduct MIT for a minimum of 30 minutes recording data electronically. Rig down wireline and return well to service.

Spud	Date:
1	

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE	TITLE	DATE	
Type or print name	E-mail address:	PHONE:	
For State Use Only			
APPROVED BY:	TITLE	DATE	
Conditions of Approval (if any). Released to Imaging: 11/3/2023 2:26:1	9 PM		
Attachment 2 Annulus Pressure Gauge Certification





7200 E. Dry Creek Rd, STE C-102, Centennial, CO 80112 Ph. 303-804-0667 Cal.Lab@Apex-Instruments.com

Calibration Certificate

Certificate Number: 233945

<i>Customer:</i> Petrotek Littleton, CO		1		
Manufacturer:	Crystal Engineering		Calibration Date:	8/18/2023
Model Number:	XP2i 5000 psi		Due Date:	8/18/2024
Serial Number:	901241	¥ .	As Found:	Out of Tolerance
Description:	Digital Test Gauge		As Left:	In Tolerance
Procedure:	CI-001		Temperature:	71.8 F
Calibrated To:	Manufacturer's Specifications		Humidity:	43.5 %
Technician:	Ben Campbell		Issue Date:	8/18/2023
Tolerance Specs: 0 - 20%: +/- (0.02% of 20% - 100%: +/- (0.1%	FS) of Rda)	÷.		
(0.00	······			
Technician Notes:				

As Left Userspan: 1.00102

Approved Signatory:

Sa Cahell

Apex Instruments certifies that the instrument listed above meets the specifications of the manufacturer at the completion of its calibration. The calibrations within the certificate are traceable through NIST or another National Metrology Institute to the International System of Units (SI).

Methods used are in accordance with the procedure listed above. This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

Unless otherwise contractually specified, a binary decision rule, utilizing simple acceptance, and simple rejection criteria will be used for the determination of compliance. When compliance statements are present, they are reported without factoring in the effects of uncertainty and the limits are defined by the manufacturer's stated accuracy.

This certificate does not guarantee the continued performance of the instrument listed above. Any modifications or services performed hereafter may void this certificate.

This certificate applies only to the item listed above and is not to be reproduced other than in full, except with prior written approval from Apex Instruments Inc.

Received by OCD: 10/26/2023 2:11:23 PM Contrincato Number: 233945

	Standa	rds Used		in the second	
Description	Model Number	Serial Number	Calibration Date	Due Date	ID
Electronic Deadweight Tester	RPM4-E-DWT A100M/A10M	1709	8/31/2022	8/31/2023	APX00024
Temp / RH Datalogger	UX100-011	21284718	9/26/2022	9/26/2023	APX09582

Compass Import		Asl	Found		Fail
Test Description	Nominal	Test Results	Tolerance (+/-)	UUT Error	Status
0	0.00 psi	0.00 psi	1.00 psi	0.00 psi	Pass
<u>1000</u>	<u>1000.02 psi</u>	<u>998.62 psi</u>	<u>1.00 psi</u>	<u>-1.40 psi</u>	<u>Fall</u>
<u>2000</u>	<u>1999.86 psi</u>	1997.38 psi	<u>2.00 psi</u>	<u>-2.48 psi</u>	<u>Fall</u>
<u>3000</u>	<u>3000.07 psi</u>	2996.67 psi	<u>3.00 psi</u>	<u>-3.40 psi</u>	<u>Fall</u>
<u>4000</u>	<u>4000.07 psi</u>	<u>3995.96 psi</u>	<u>4.00 psi</u>	-4.11 psi	<u>Fail</u>
5000	4999.90 psi	4995.49 psi	5.00 psi	-4.41 psi	Pass
4000	4000.08 psi	3996.14 psi	4.00 psi	-3.94 psi	Pass
<u>3000</u>	<u>2999.97 psi</u>	<u>2996.86 psi</u>	<u>3.00 psi</u>	<u>-3.11 psi</u>	Fall
<u>2000</u>	<u>1999.96 psi</u>	<u>1997.79 psi</u>	<u>2.00 psi</u>	<u>-2.17 psi</u>	<u>Fall</u>
<u>1000</u>	<u>999.96 psi</u>	998.83 psi	<u>1.00 psi</u>	<u>-1.13 psi</u>	<u>Fall</u>
0	0.12 psi	0.20 psi	1.00 psi	0.08 psi	Pass

Compass Import								
Gauge Pressure		As Left						
Test Description	Nominal	Test Results	Tolerance (+/-)	UUT Error	Status			
0	0.00 psi	0.00 psi	1.00 psi	0.00 psi	Pass			
1000	1000.10 psi	999.68 psi	1.00 psi	-0.42 psi	Pass			
2000	2000:07 psi	1999.61 psi	2.00 psi	-0.46 psi	Pass			
3000	3000.02 psi	2999.69 psi	3.00 psi	-0.33 psi	Pass			
4000	3999.80 psi	3999.80 psi	4.00 psi	0.00 psi	Pass			
5000	5000.04 psi	5000.81 psi	5.00 psi	0.77 psi	Pass			
4000	3999.92 psi	4000.13 psi	4.00 psi	0.21 psi	Pass			
3000	3000.08 psi	3000.16 psi	3.00 psi	0.08 psi	Pass			
2000	1999.97 psi	1999.96 psi	2.00 psi	-0.01 psi	Pass			
1000	1000.01 psi	1000.02 psi	1.00 psi	0.01 psi	Pass			
0	-0.03 psi	0.21 psi	1.00 psi	0.24 psi	Pass			

- End of measurement results--

1	Released to Imaging: 11/3/2023 2:26:19 PM

Page 39 01 8/18/2023

6

Attachment 3 Downhole Pressure Gauge Certification





"The Next Generation of Down Hole Tools"

Calibration Date:	28-May-21
Max Pressure Error:	0.010% F.S.
Max Temperature Error:	0.110 °C
Part Number:	101696
Serial Number:	224831

Calibration System: Batch Number: CALIBRATION03 20210104.143132

1.25 OD_Quartz DXB 2_Assembly								
Max Pr	ressure	Max Temperature						
psi	psi kPa		°C					
16,000	110,316	351	177					

Accuracy: As shown in the graph below, this DataCan Pressure gauge conforms to within +/- 0.030% F.S. of the pressure standard used in calibration, which is accurate to within +/- 0.01% of reading.



Working Standards

Sun Electronic Systems Environmental Chamber, Model: EC127, Serial: EC0020 DHI Instruments Pressure Controller, Model: PPCH-200M (30,000psi Reference), Serial: 1529

Traceability Statement

All working standards are traceable to nationally or internationally recognized standards.

Approved By: DataCan Services Corp.

Confidential

www.datacan.ca

Calibrated By: Angelo Pulido

info@datacan.ca



"The Next Generation of Down Hole Tools"

Calibration Date:	10-Mar-22
Max Pressure Error:	0.011% F.S
Max Temperature Error:	0.210 °C
Part Number:	101696
Serial Number:	242665

1.25 OD_Quartz DXB 2_Assembly								
Max Pr	essure	Max Temperature						
psi	psi kPa		°C					
16,000	110,316	351	177					

Accuracy: As shown in the graph below, this DataCan Pressure gauge conforms to within +/- 0.030% F.S. of the pressure standard used in calibration, which is accurate to within +/- 0.01% of reading.



Working Standards

Sun Electronic Systems Environmental Chamber, Model: EC127 DHI Instruments Pressure Controller, Model: PPCH-200M (30,000psi Reference)

Traceability Statement

All working standards are traceable to nationally or internationally recognized standards.

Approved By: DataCan Services Corp.

Confidential

www.datacan.ca

Calibrated By: Angelo Pulido

Attachment 4 FESCO Injection Falloff Test Report



F	<u>(</u> SC				1000	FESCO Fesco Ave A), Ltd. Alice, Texas 78	3332	FESCO
PETRO	LEUM ENGIN	IEERS			FLOWI	NG GRA	DIENT SU	URVEY	PETROLEUM ENGINEERS
Compar Well: Field: Formati	ny: Petr Nav Dav ion: Una	rotek Corp vajo Refin vonia available	ooration ing Waste	e Dispos	al Well No.	4		Test Date: Location: Status:	09/26/2023 Eddy County, NM Flowing
Well Data:Wellhead Connection:4-1/16" BX-155 FlangeGElevation:20 ft above GLCTubing:3" Set at 10265 ft (Packer)CCasing:9.625" Set at 10327 ft (EOC)CPerfs:10327 - 10700 ft (MD)Datum:Datum:10514 ft (MD)							Gauge Type: Gauge SN: Gauge Range Gauge OD:	Electronic DC-224831 :: 15000 psi 1.2500"	
	Depth	Dolto			Pressure	Dolto	Drossuro		
MD ft	TVD ft	Denta Depth ft	WHP psia	BHT °F	Pressure psia	Pressure psi	Gradient psi / ft	Commen	ts
0	0	0	300	108.83	299.63	0.00	0.0000		
1000	1000	1000		108.53	722.50	422.87	0.4229		
3000	3000	1000		108.21	1146.22	423.72	0.4237		
4000	4000	1000		107.70	1995.40	425.22	0.4252		
5000	5000	1000		107.61	2420.51	425.11	0.4251		
6000	6000	1000		107.66	2851.11	430.60	0.4306		
7000	7000	1000		107.83	3275.85	424.74	0.4247		
0000	8000	1000		108.15	3/00.15	430.30	0.4303		
10000	10000	1000		109.42	4566.73	435.71	0.4357		
10307	10307	307	300	109.53	4700.81	134.08	0.4367		
BHT at Test Depth:109.53 °FOil Level:InjectingPrevious BHPExtrapolated BHP at Datum:4788.04 psiaWater Level:InjectingBHP Change:BHP Gradient at Datum :0.4214 psi/ftCsg Press:N/A							P: U/A : U/A		
Keinark	grad	dient stops	s to 1030°	nd clear 7 ft.	eu 1030/ ft	with weight	i var. POOH	KITI WILLI ELECTRONIC GAUS	ge making injecting
							Certifie	ed: FESCO, Ltd Midl	and, TX
								District Manager - (4	432) 332-3211
Job No.	.: J20231	0021401.	001A			Page	1		
ad to b	maaina	11/3/202	3 2:26.1) PM-					



Released to Imaging: 11/3/2023 2:26:19 PM

Æ	(SC				1000	FESCO Fesco Ave A	D , Ltd. Alice, Texas 7	8332		ŜCo
PETRO	LEUM ENGIN	TEERS			STATI	C GRAD	IENT SU	RVEY	PETROLEU	M ENGINEERS
Compar Well: Field: Formati	ny: Petr Nav Dav ion: Una	rotek Corp vajo Refin vonia voailable	ooration ing Waste	e Dispos	al Well No.	. 4			Test Date:09/28/2023Location:Eddy CounStatus:SI for 30.2	ty, NM hrs
Well Data:Wellhead Connection: 4-1/16" BX-155 FlangeGaugeElevation:20 ft above GLGaugeTubing:3" Set at 10265 ft (Packer)GaugeCasing:9.625" Set at 10327 ft (EOC)GaugePerfs:10327 - 10700 ft (MD)Datum:Datum:10514 ft (MD)Gauge							Gauge Type:ElectronicGauge SN:DC-2248Gauge Range:15000 psGauge OD:1.2500"	c 31 i		
	Depth	D K			Pressure		D			
MD ft	TVD ft	Delta Depth ft	WHP psia	BHT °F	Gauge Pressure psia	Delta Pressure psi	Pressure Gradient psi / ft		Comments	
0	0	0	200	68.20	197.34	0.00	0.0000	Water leve	el at surface	
1000	1000	1000		88.58	638.84	441.50	0.4415			
2000	2000	1000		91.37	1072.19	433.35	0.4334			
3000	3000	1000		94.41	1505.36	433.17	0.4332			
4000	4000	1000		97.11 100.66	2373 16	433.92 433.88	0.4339			
6000	6000	1000		104.98	2807.48	434.32	0.4343			
7000	7000	1000		110.32	3241.62	434.14	0.4341			
8000	8000	1000		116.71	3676.18	434.56	0.4346			
9000	9000	1000		123.55	4110.23	434.05	0.4340			
10000	10000	1000		131.24	4544.54	434.31	0.4343	XXZ	1'	
BHT at Extrapo BHP G	Test Dep plated BH radient at	pth: IP at Datu t Datum :	m:	111 4768 0.43	.59 °F .40 psia 355 psi/ft	Oil Level Water Le Csg Press	l: None evel: Surfac s: N/A	e	Previous BHP: U/A BHP Change: U/A	
Remark	ts: MII surf	RU slicklin ace. RDM	ne. RIH a IO.	nd latch	gauge after	30.2-hr BI	HP Falloff T	est. POOH	making static gradient stops	s to
							Certifi B	ed: FESC sy: <u>Mich</u> Distri	CO, Ltd Midland, TX ael Carnes act Manager - (432) 332-32	11
Job No.	.: J20231	0021401.0	001A			Page	1			





Released to Imaging: 11/3/2023 2:26:19 PM



Released to Imaging: 11/3/2023 2:26:19 PM



Released to Imaging: 11/3/2023 2:26:19 PM

Æ	300			1000	FESC Fesco Ave	O, Ltd Alice, Texa	• is 78332	FESCO			
PETROLEUM ENGINEERS RESERVOIR PRESSURE FALLOFF TEST											
Company: Well: Field: Location: Perfs: Formation	Petrotek C Navajo Re Davonia Eddy Cou 10327 - 10 Unavailab	Test Date: Gauge Depth: Gauge Type: Gauge SN: Gauge Range: Gauge OD:	09/26 - 09/28/2023 10307 ft Electronic DC-224831 15000 psi 1.2500"								
	Real	Delta			Delta						
Test Date	Time	Time	WHP	BHP	BHP	Temp.	a i				
mm/dd/yy	hh:mm:ss	hours	psia	psia	psi	° F	Comments				
09/26/23	11.23.00	-11 23194		17.08		73.65	Powered up gauge				
09/26/23	11:30:00	-11.11528		17.00		84.17	Towered up gauge.				
09/26/23	11:40:00	-10.94861		17.13		93.36					
09/26/23	11:50:00	-10.78194		17.92		96.59					
09/26/23	12:00:00	-10.61528		16.43		93.35					
09/26/23	12:06:00	-10.51528		16.38		98.79					
09/26/23	12:06:42	-10.50361		306.07		104.28	Pressured up lubricator.				
09/26/23	12:07:00	-10.49861		289.61		106.64					
09/26/23	12:08:00	-10.48194		295.83		105.85					
09/26/23	12:09:00	-10.46528		292.82		108.00					
09/26/23	12:10:00	-10.44801 10.43104		300.14		108.78					
09/20/23	12.11.00 12.12.00	-10.43194		300.39		108.81					
09/26/23	12.12.00 12.13.00	-10 39861		299.54		108.83					
09/26/23	12:13:10	-10.39583	300	299.63		108.83	RIH making injecting gradien	t stops.			
09/26/23	12:14:00	-10.38194		381.25		108.80		· · · · · · · · · · · · · · · · · · ·			
09/26/23	12:15:00	-10.36528		520.76		108.71					
09/26/23	12:16:00	-10.34861		670.68		108.62					
09/26/23	12:16:25	-10.34167		723.47		108.57	Arrived at 1000 ft stop.				
09/26/23	12:17:00	-10.33194		722.66		108.56					
09/26/23	12:18:00	-10.31528		723.17		108.55					
09/20/23	12:19:00	-10.29801		722.83		108.54					
09/26/23	12:20:00	-10.20194		722.14		108.54					
09/26/23	12:21:00	-10.26417		722.50		108.53	Left 1000 ft stop.				
09/26/23	12:22:00	-10.24861		813.85		108.49	• • • - • • • P				
09/26/23	12:23:00	-10.23194		965.26		108.39					
09/26/23	12:24:00	-10.21528		1103.03		108.28					
09/26/23	12:24:23	-10.20889		1146.35		108.24	Arrived at 2000 ft stop.				
09/26/23	12:25:00	-10.19861		1147.10		108.21					
09/26/23	12:26:00	-10.18194		1146.53		108.20					
09/26/23	12:27:00	-10.16528		1146.82		108.21					
09/26/23	12:28:00	-10.14861		1146.31		108.21					
09/20/23	12.29:00	-10.13194		1140.38		108.21	Left 2000 ft stop				
09/26/23	12:29:11	-10.12009		1140.22		108.21	2000 ft stop.				
09/26/23	12:31:00	-10.09861		1303.93		108.12					
==		10.00104		1441 75		100.00					

Æ			• 15 78332	FESCO				
PETROLEUM	engineers		RES	ERVOIR	PRESS	URE FA	ALLOFF TEST	PETROLEUM ENGINEERS
Company: Well: Field: Location: Perfs: Formation:	09/26 - 09/28/2023 10307 ft Electronic DC-224831 15000 psi 1.2500"							
	Real	Delta			Delta			
Test Date	Time	Time	WHP	BHP	BHP	Temp. ○F	Commonts	
IIIII/au/yy	1111:11111:55	nours	psia	psia	psi	F	Comments	
09/26/23	12:32:51	-10.06778		1570.52		107.93	Arrived at 3000 ft stop.	
09/26/23	12:33:00	-10.06528		1570.38		107.92	•	
09/26/23	12:34:00	-10.04861		1570.42		107.90		
09/26/23	12:35:00	-10.03194		1570.32		107.90		
09/26/23	12:36:00	-10.01528		1570.32		107.90		
09/26/23	12:37:00	-9.99861		1570.62		107.90	L 5 2000 S	
09/26/23	12:37:24	-9.99194		1570.18		107.89	Left 3000 ft stop.	
09/26/23	12:38:00	-9.98194		1631.59		107.88		
09/26/23	12:39:00	-9.90328		1/8/.32		107.81		
09/26/23	12.40.00 12.40.32	-9.94801		1945.55		107.73	Arrived at 4000 ft stop	
09/26/23	12:40:32	-9 93194		1994 90		107.72		
09/26/23	12:42:00	-9.91528		1994.78		107.71		
09/26/23	12:43:00	-9.89861		1995.04		107.70		
09/26/23	12:44:00	-9.88194		1995.34		107.70		
09/26/23	12:45:00	-9.86528		1995.29		107.70		
09/26/23	12:45:25	-9.85833		1995.40		107.70	Left 4000 ft stop.	
09/26/23	12:46:00	-9.84861		2038.13		107.70		
09/26/23	12:47:00	-9.83194		2132.54		107.67		
09/26/23	12:48:00	-9.81528		2258.89		107.64		
09/20/23	12.49:00	-9./9801		2374.30		107.62	Arrived at 5000 ft stop	
09/26/23	12:50:00	-9.78194		2420.54		107.61	1 11 vou al 5000 îl slop.	
09/26/23	12:51:00	-9.76528		2420.50		107.61		
09/26/23	12:52:00	-9.74861		2420.54		107.61		
09/26/23	12:53:00	-9.73194		2420.81		107.61		
09/26/23	12:54:00	-9.71528		2420.42		107.61		
09/26/23	12:54:27	-9.70778		2420.51		107.61	Left 5000 ft stop.	
09/26/23	12:55:00	-9.69861		2465.93		107.61		
09/26/23	12:56:00	-9.68194		2550.58		107.62		
09/26/23	12:57:00	-9.66528		2683.58		107.63		
09/26/23	12:58:00	-9.64861		2807.28		107.65	Arrived at 6000 ft -t	
09/20/23	12:38:32	-9.03972		2851.31		107.60	Antived at 6000 It stop.	
09/26/23	13.00.00	-9.03194		2851.12		107.66		
09/26/23	13:01:00	-9.59861		2851.14		107.66		
09/26/23	13:02:00	-9.58194		2851.16		107.66		
00/26/22	13.03.00	-9 56528		2851.18		107.66		

Æ	FESCO, Ltd. 1000 Fesco Ave Alice, Texas 78332											
PETROLEUM	A ENGINEERS		RES	ERVOIR	PRESS	URE FA	ALLOFF TEST	PETROLEUM ENGINEERS				
Company: Well: Field: Location: Perfs: Formation:	Company:Petrotek CorporationTest Date:Company:Well:Navajo Refining Waste Disposal Well No. 4Gauge Depth:IField:DavoniaGauge Type:HLocation:Eddy County, NMGauge SN:IPerfs:10327 - 10700 ft (MD)Gauge Range:IFormation:UnavailableGauge OD:1											
	Real	Delta			Delta							
Test Date	Time	Time	WHP	BHP	BHP	Temp.	G					
mm/dd/yy	hh:mm:ss	hours	psia	psia	psı	[°] F	Comments					
09/26/23	13.03.36	-9 55528		2851 11		107.66	Left 6000 ft stop					
09/26/23	13:04:00	-9.54861		2870.10		107.66	Left 0000 ft stop.					
09/26/23	13:05:00	-9.53194		2913.30		107.67						
09/26/23	13:06:00	-9.51528		2955.73		107.69						
09/26/23	13:07:00	-9.49861		3008.18		107.70						
09/26/23	13:08:00	-9.48194		3090.20		107.73						
09/26/23	13:09:00	-9.46528		3144.86		107.76						
09/26/23	13:10:00	-9.44861		3206.53		107.79						
09/26/23	13:11:00	-9.43194		3267.08		107.82						
09/26/23	13:11:11	-9.42889		3275.50		107.83	Arrived at 7000 ft stop.					
09/26/23	13:12:00	-9.41528		3275.60		107.83						
09/20/23	13:13:00	-9.39801		3275.80		107.83						
09/26/23	13.14.00	-9 36528		3275.04		107.83						
09/26/23	13:16:00	-9.34861		3275.76		107.83						
09/26/23	13:16:21	-9.34278		3275.85		107.83	Left 7000 ft stop.					
09/26/23	13:17:00	-9.33194		3298.01		107.83	•					
09/26/23	13:18:00	-9.31528		3350.25		107.86						
09/26/23	13:19:00	-9.29861		3387.75		107.89						
09/26/23	13:20:00	-9.28194		3433.14		107.92						
09/26/23	13:21:00	-9.26528		3488.57		107.96						
09/26/23	13:22:00	-9.24861		3520.13		107.99						
09/20/23	13.23:00	-9.23194		3619/1		108.02						
09/26/23	13.24.00	-9.19861		3667 16		108.07						
09/26/23	13:25:57	-9.18278		3703.82		108.15	Arrived at 8000 ft stop.					
09/26/23	13:26:00	-9.18194		3703.91		108.15						
09/26/23	13:27:00	-9.16528		3704.81		108.16						
09/26/23	13:28:00	-9.14861		3705.40		108.15						
09/26/23	13:29:00	-9.13194		3705.87		108.15						
09/26/23	13:29:58	-9.11583		3706.15		108.15	Left 8000 ft stop.					
09/26/23	13:30:00	-9.11528		3705.39		108.15						
09/26/23	13:31:00	-9.09861		3/33.67		108.16						
09/26/23	13:32:00	-9.08194		3779.12		108.21						
09/20/23	13:33:00	-9.00328		3850.00		108.20						
09/26/23	13.34.00	-9.04001		3909.63		108.31						
	10.00.00	2.0017 4		2202.03		1 100.07						

Æ		as 78332	ESCO									
PETROLEUN	M ENGINEERS		RES	ERVOIR	PRESS	URE FA	ALLOFF TEST	ROLEUM ENGINEERS				
Company: Well: Field: Location: Perfs: Formation	Company:Petrotek CorporationTest Date:Well:Navajo Refining Waste Disposal Well No. 4Gauge Depth:Field:DavoniaGauge Type:Location:Eddy County, NMGauge SN:Perfs:10327 - 10700 ft (MD)Gauge Range:Formation:UnavailableDelta											
Test Date	Real Time	Delta Timo	WHD	рир	Delta PUD	Tomp						
mm/dd/yy	hh:mm:ss	hours	psia	psia	psi	°F	Comments					
				-	-							
09/26/23	13:37:00	-8.99861		4027.13		108.53						
09/26/23	13:38:00	-8.98194		4095.90		108.63						
09/26/23	13:38:29	-8.97389		4131.07		108.68	Arrived at 9000 ft stop.					
09/26/23	13:39:00	-8.96528		4130.78		108.71						
09/26/23	13:40:00	-8.94861		4130.86		108.72						
09/20/23	13:41:00	-0.93194		4130.91		108.72						
09/26/23	13:42:00	-8.89861		4130.98		108.72						
09/26/23	13.43.00	-8 89556		4131.04		108.72	Left 9000 ft stop					
09/26/23	13:44:00	-8.88194		4153.84		108.74						
09/26/23	13:45:00	-8.86528		4192.01		108.79						
09/26/23	13:46:00	-8.84861		4239.70		108.87						
09/26/23	13:47:00	-8.83194		4290.56		108.96						
09/26/23	13:48:00	-8.81528		4350.78		109.07						
09/26/23	13:49:00	-8.79861		4418.06		109.18						
09/26/23	13:50:00	-8.78194		4467.20		109.28						
09/26/23	13:51:00	-8.76528		4511.70		109.36						
09/26/23	13:52:00	-8.74861		4556.33		109.46	A minuted at 10000 ft atom					
09/26/23	13:52:08	-8.74639		4562.40		109.47	Arrived at 10000 ft stop.					
09/20/23	13:55:00	-0.75194		4302.33		109.48						
09/26/23	13:55:00	-8.69861		4564 55		109.40						
09/26/23	13:56:00	-8.68194		4565.23		109.45						
09/26/23	13:57:00	-8.66528		4566.52		109.43						
09/26/23	13:57:22	-8.65917		4566.73		109.42	Left 10000 ft stop.					
09/26/23	13:58:00	-8.64861		4597.92		109.44	<u> </u>					
09/26/23	13:59:00	-8.63194		4641.73		109.52						
09/26/23	14:00:00	-8.61528		4689.67		109.59						
09/26/23	14:00:18	-8.61028		4700.61		109.61	Softset gauge at 10307 ft.					
09/26/23	14:00:19	-8.61000		4700.48		109.61	POOH. RDMO slickline.					
09/26/23	14:01:00	-8.59861		4700.61		109.61						
09/26/23	14:02:00	-8.58194		4700.08		109.58						
09/20/23	14.03:00	-0.30328		4700.73		109.30						
09/26/23	14.04.00	-8.53500	300	4700.78		109.55	10307 ft stop					
09/26/23	14:05:00	-8.53194	500	4700.81		109.53	10507 It stop.					
09/26/23	14:10:00	-8.44861		4701.06		109.46						
09/26/23	14:15:00	-8.36528		4701.30		109.43						

Æ	FESCO, Ltd. 1000 Fesco Ave Alice, Texas 78332											
PETROLEU	M ENGINEERS		RES	ERVOIR	PRESS	URE FA	ALLOFF TEST	PETROLEUM ENGINEERS				
Company: Well: Field: Location: Perfs: Formation	Company:Petrotek CorporationTest Date:Well:Navajo Refining Waste Disposal Well No. 4Gauge Depth:Field:DavoniaGauge Type:Location:Eddy County, NMGauge SN:Perfs:10327 - 10700 ft (MD)Gauge Range:Formation:UnavailableGauge OD:											
	Real	Delta			Delta							
Test Date	Time	Time	WHP	BHP	BHP	Temp.						
mm/dd/yy	hh:mm:ss	hours	psia	psia	psi	°F	Comments					
09/26/23	14.20.00	-8 2810/		4701 /0		109.42						
09/26/23	14:25:00	-8.19861		4701.63		109.42						
09/26/23	14:30:00	-8.11528		4701.59		109.39						
09/26/23	14:35:00	-8.03194		4701.66		109.41						
09/26/23	14:40:00	-7.94861		4701.76		109.46						
09/26/23	14:45:00	-7.86528		4701.38		109.49						
09/26/23	14:50:00	-7.78194		4699.73		109.51						
09/26/23	14:55:00	-7.69861		4698.96		109.56						
09/26/23	15:00:00	-7.61528		4699.09		109.59						
09/26/23	15:15:00	-7.36528		4700.01		109.60						
09/26/23	15:31:00	-7.09861		4698.01		109.61						
09/26/23	15:40:00	-0.84801		4098.28		109.58						
09/26/23	16.16.00	-6 34861		4698.40		109.55						
09/26/23	16:31:00	-6.09861		4698.43		109.40						
09/26/23	16:46:00	-5.84861		4698.47		109.36						
09/26/23	17:01:00	-5.59861		4698.49		109.33						
09/26/23	17:16:00	-5.34861		4698.52		109.31						
09/26/23	17:31:00	-5.09861		4698.52		109.29						
09/26/23	17:46:00	-4.84861		4698.56		109.28						
09/26/23	18:01:00	-4.59861		4698.58		109.27						
09/26/23	18:16:00	-4.34861		4698.58		109.26						
09/26/23	18:31:00	-4.09861		4698.59		109.26						
09/20/23	10.40:00	-3.04801		4098.39		109.23						
09/26/23	19:16:00	-3 34861		4698 57		109.20						
09/26/23	19:31:00	-3.09861		4698.58		109.27						
09/26/23	19:46:00	-2.84861		4698.58		109.32						
09/26/23	20:01:00	-2.59861		4698.60		109.36						
09/26/23	20:16:00	-2.34861		4698.58		109.41						
09/26/23	20:31:00	-2.09861		4698.60		109.47						
09/26/23	20:46:00	-1.84861		4698.60		109.53						
09/26/23	21:01:00	-1.59861		4698.61		109.59						
09/26/23	21:16:00	-1.34861		4698.60		109.64						
09/26/23	21:31:00	-1.09861		4698.61		109.68						
09/26/23	21:46:00	-0.84861		4698.62		109.72						
09/20/23	22.01:00	-0.39801		4070.04		109.70						
09/20/23	22:10:00	-0.34861		4098.62		1109.80						

		• as 78332	PETROLEUM ENGINEERS								
Company:	Petrotek C	orporation	RES	ERVOIR	PRESS	URE FA	ALLOFF TEST	09/26 - 09/28/2023			
Well: Field: Location: Perfs: Formation	Well:Navajo Refining Waste Disposal Well No. 4Gauge DepthField:DavoniaGauge Type:Location:Eddy County, NMGauge SN:Perfs:10327 - 10700 ft (MD)Gauge RangFormation:UnavailableGauge OD:										
Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Delta BHP psi	Temp. °F	Comments				
00/26/22	22.21.00	0.009/1		4609.66		100.92					
09/20/23	22:31:00	-0.09801		4098.00		109.83	Water Injection Rate – Unava	ilabla			
09/26/23	22:30:34	0.00028	300	4698.67	0.00	109.83	Shut in well for 44-hr falloff t	est			
09/26/23	22:36:56	0.00028	500	4698.66	-0.01	109.83		est.			
09/26/23	22:36:57	0.00056		4698.62	-0.05	109.83					
09/26/23	22:36:58	0.00083		4698.57	-0.10	109.83					
09/26/23	22:36:59	0.00111		4698.57	-0.10	109.83					
09/26/23	22:37:00	0.00139		4698.57	-0.10	109.83					
09/26/23	22:37:01	0.00167		4698.56	-0.11	109.83					
09/26/23	22:37:02	0.00194		4698.57	-0.10	109.83					
09/26/23	22:37:03	0.00222		4698.56	-0.11	109.83					
09/26/23	22:37:04	0.00250		4698.54	-0.13	109.83					
09/26/23	22:37:05	0.00278		4698.53	-0.14	109.83					
09/26/23	22:37:06	0.00306		4698.53	-0.14	109.83					
09/26/23	22:37:07	0.00333		4698.52	-0.15	109.83					
09/26/23	22:37:08	0.00361		4698.30	-0.37	109.83					
09/26/23	22:37:09	0.00389		4698.12	-0.55	109.83					
09/26/23	22:37:10	0.00417		4698.15	-0.52	109.84					
09/26/23	22:37:11	0.00444		4698.11	-0.56	109.84					
09/26/23	22:37:12	0.00472		4698.07	-0.60	109.84					
09/26/23	22:37:13	0.00500		4698.11	-0.56	109.84					
09/26/23	22:37:14	0.00528		4698.08	-0.59	109.84					
09/26/23	22:37:15	0.00556		4698.01	-0.66	109.84					
09/26/23	22:37:10	0.00583		4097.97	-0.70	109.84					
09/20/23	22:37:17	0.00620		4097.94	-0./3	109.84					
09/20/23	22.37:10	0.00039	<u> </u>	4097.87	-0.80	109.84					
09/20/23	22.37.19	0.00007		4697.83	-0.82	109.04					
09/26/23	22.37.20	0.00024		4697.82	-0.87	109.84					
09/26/23	22:37.21	0.00750		4697 76	-0.91	109.84					
09/26/23	22:37:23	0.00778		4697.74	-0.93	109.84					
09/26/23	22:37:24	0.00806		4697.71	-0.96	109.84					
09/26/23	22:37:25	0.00833		4697.67	-1.00	109.84					
09/26/23	22:37:26	0.00861		4697.65	-1.02	109.84					
09/26/23	22:37:27	0.00889		4697.61	-1.06	109.84					
09/26/23	22:37:28	0.00917		4697.59	-1.08	109.84					
09/26/23	22:37:29	0.00944		4697.56	-1.11	109.84					
09/26/23	22:37:30	0.00972		4697.53	-1.14	109.84					

Æ	ĴCo			FESCO							
PETROLEU	M ENGINEERS		RES	ERVOIR	PRESS	URE FA	ALLOFF TEST	PETROLEUM ENGINEERS			
Company: Well: Field: Location: Perfs: Formation	Company:Petrotek CorporationTest Date: Gauge DepthWell:Navajo Refining Waste Disposal Well No. 4Gauge DepthField:DavoniaGauge Type: Gauge SN: Gauge SN: Gauge Range Gauge OD:Perfs:10327 - 10700 ft (MD)Gauge Range Gauge OD:										
	Real	Delta			Delta		•				
Test Date	Time	Time	WHP	BHP	BHP	Temp.					
mm/dd/yy	hh:mm:ss	hours	psia	psia	psi	° F	Comments				
00/26/22	22.27.22	0.01020		4607 10	1 57	100.94					
09/20/23	22:37:32	0.01028		4097.10	-1.57	109.84					
09/20/23	22.37.33	0.01030		4697.08	-1.39	109.84					
09/26/23	22:37:34	0.01003		4697.00	-1.67	109.84					
09/26/23	22:37:36	0.01139		4696.97	-1.70	109.84					
09/26/23	22:37:37	0.01167		4697.01	-1.66	109.84					
09/26/23	22:37:38	0.01194		4696.92	-1.75	109.84					
09/26/23	22:37:40	0.01250		4696.78	-1.89	109.84					
09/26/23	22:37:41	0.01278		4696.72	-1.95	109.84					
09/26/23	22:37:42	0.01306		4696.64	-2.03	109.84					
09/26/23	22:37:44	0.01361		4696.56	-2.11	109.84					
09/26/23	22:37:45	0.01389		4696.51	-2.16	109.84					
09/26/23	22:37:46	0.01417		4696.47	-2.20	109.84					
09/26/23	22:37:48	0.01472		4696.38	-2.29	109.84					
09/20/23	22:37:49	0.01500		4090.32	-2.55	109.84					
09/20/23	22.37.31	0.01550		4090.23	-2.44	109.84					
09/26/23	22.37.53 22.37.54	0.01639		4696 12	-2.52	109.84					
09/26/23	22:37:56	0.01694		4696.02	-2.65	109.84					
09/26/23	22:37:58	0.01750		4695.96	-2.71	109.84					
09/26/23	22:38:00	0.01806		4695.88	-2.79	109.84					
09/26/23	22:38:01	0.01833		4695.85	-2.82	109.84					
09/26/23	22:38:03	0.01889		4695.78	-2.89	109.85					
09/26/23	22:38:05	0.01944		4695.70	-2.97	109.85					
09/26/23	22:38:07	0.02000		4695.64	-3.03	109.85					
09/26/23	22:38:09	0.02056		4695.58	-3.09	109.85					
09/26/23	22:38:12	0.02139		4695.16	-3.51	109.85					
09/26/23	22:38:14	0.02194		4095.03	-5.64	109.85					
09/26/23	22:38:10	0.02250		4093.01	-3.00	109.85					
09/26/23	22.30.10	0.02300		4694.65	-3.82	109.85					
09/26/23	22:38:23	0.02369		4694.56	-4.11	109.85					
09/26/23	22:38:26	0.02528		4694.42	-4.25	109.85					
09/26/23	22:38:29	0.02611		4694.27	-4.40	109.86					
09/26/23	22:38:31	0.02667		4694.17	-4.50	109.86					
09/26/23	22:38:34	0.02750		4694.05	-4.62	109.86					
09/26/23	22:38:37	0.02833		4693.93	-4.74	109.86					
09/26/23	22:38:40	0.02917		4693.23	-5.44	109.86					

RESERVOIR PRESSURE FALLOFF TEST Corneates resource Company: Petrotek Corporation Test Date: 09/26 - 09/28/202; Company: Petrotek Corporation Test Date: 09/26 - 09/28/202; Gauge Depth: 10307 ft Gauge Depth: 10307 ft Company: Petrotek Corporation Test Date Real Defta Test Date Real Test Date Real Comments Op/2623 C2:38:46 OO:3007 4692.45 6.22 109.86 Op/2623 C2:39:01 <	Æ	ĴCo			• 15 78332	FESCO			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	PETROLEU	M ENGINEERS		RES	ERVOIR	PRESS	URE FA	ALLOFF TEST	PETROLEUM ENGINEERS
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Company: Well: Field: Location: Perfs: Formation	Petrotek C Navajo Re Davonia Eddy Cou 10327 - 10 : Unavailab	Test Date: Gauge Depth: Gauge Type: Gauge SN: Gauge Range: Gauge OD:	09/26 - 09/28/2023 10307 ft Electronic DC-224831 : 15000 psi 1.2500"					
		Real	Delta			Delta			
$\begin{array}{ $	Test Date	Time	Time	WHP	BHP	BHP	Temp.		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	mm/dd/yy	hh:mm:ss	hours	psia	psia	psi	° F	Comments	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	00/26/23	22.28.13	0.03000		1603 20	5 47	100.86		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	09/26/23	22:38:46	0.03083		4693.09	-5.58	109.86		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/26/23	22:38:49	0.03167		4692.75	-5.92	109.87		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/26/23	22:38:53	0.03278		4692.45	-6.22	109.87		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	09/26/23	22:38:56	0.03361		4691.96	-6.71	109.87		
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	09/26/23	22:39:00	0.03472		4691.77	-6.90	109.87		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	09/26/23	22:39:03	0.03556		4691.33	-7.34	109.87		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	09/26/23	22:39:07	0.03667		4690.88	-7.79	109.88		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/26/23	22:39:11	0.03778		4690.58	-8.09	109.88		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	09/26/23	22:39:15	0.03889		4690.20	-8.47	109.88		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/26/23	22:39:19	0.04000		4689.37	-9.30	109.88		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/20/23	22:39:23	0.04111		4089.44	-9.23	109.89		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/20/23	22.39.27	0.04222		4088.31	-10.30	109.89		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/26/23	22:39:32	0.04472		4687.67	-11.00	109.89		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/26/23	22:39:41	0.04611		4687.32	-11.35	109.90		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/26/23	22:39:46	0.04750		4686.73	-11.94	109.90		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/26/23	22:39:51	0.04889		4686.74	-11.93	109.90		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/26/23	22:39:56	0.05028		4686.07	-12.60	109.90		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/26/23	22:40:01	0.05167		4686.18	-12.49	109.91		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/26/23	22:40:07	0.05333		4685.67	-13.00	109.91		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/26/23	22:40:12	0.05472		4685.62	-13.05	109.91		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/26/23	22:40:18	0.05639		4685.34	-13.33	109.92		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/26/23	22:40:24	0.05806		4685.18	-13.49	109.92		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/26/23	22:40:30	0.05972		4085.20	-13.4/	109.92		
09/26/23 22:40:49 0.06500 4684.07 -13.76 109.93 09/26/23 22:40:56 0.06694 4684.73 -13.94 109.93 09/26/23 22:41:03 0.06889 4684.64 -14.03 109.93 09/26/23 22:41:10 0.07083 4684.69 -13.98 109.94 09/26/23 22:41:18 0.07306 4684.67 -14.00 109.94 09/26/23 22:41:25 0.07500 4684.57 -14.10 109.94	09/20/23	22.40.30	0.00139		4004.93	-13.72	109.92		
09/26/23 22:40:56 0.06694 4684.73 -13.94 109.93 09/26/23 22:41:03 0.06889 4684.64 -14.03 109.93 09/26/23 22:41:10 0.07083 4684.69 -13.98 109.94 09/26/23 22:41:18 0.07306 4684.67 -14.00 109.94 09/26/23 22:41:25 0.07500 4684.57 -14.10 109.94	09/26/23	22:40:49	0.00555		4684 91	-13.00	109.93		
09/26/23 22:41:03 0.06889 4684.64 -14.03 109.93 09/26/23 22:41:10 0.07083 4684.69 -13.98 109.94 09/26/23 22:41:18 0.07306 4684.67 -14.00 109.94 09/26/23 22:41:25 0.07500 4684.57 -14.10 109.94	09/26/23	22:40:56	0.06694		4684.73	-13.94	109.93		
09/26/23 22:41:10 0.07083 4684.69 -13.98 109.94 09/26/23 22:41:18 0.07306 4684.67 -14.00 109.94 09/26/23 22:41:25 0.07500 4684.57 -14.10 109.94	09/26/23	22:41:03	0.06889		4684.64	-14.03	109.93		
09/26/23 22:41:18 0.07306 4684.67 -14.00 109.94 09/26/23 22:41:25 0.07500 4684.57 -14.10 109.94	09/26/23	22:41:10	0.07083		4684.69	-13.98	109.94		
09/26/23 22:41:25 0.07500 4684.57 -14.10 109.94	09/26/23	22:41:18	0.07306		4684.67	-14.00	109.94		
	09/26/23	22:41:25	0.07500		4684.57	-14.10	109.94		
09/26/23 22:41:33 0.07722 4684.52 -14.15 109.94	09/26/23	22:41:33	0.07722		4684.52	-14.15	109.94		
09/26/23 22:41:41 0.07944 4684.50 -14.17 109.95	09/26/23	22:41:41	0.07944		4684.50	-14.17	109.95		
09/26/23 22:41:50 0.08194 4684.50 -14.17 109.95	09/26/23	22:41:50	0.08194		4684.50	-14.17	109.95		
09/26/23 22:41:58 0.08417 4684.52 -14.15 109.95	09/26/23	22:41:58	0.08417		4684.52	-14.15	109.95		

PETROLEU			RES	PETROLEUM ENGINEERS				
Company: Well: Field: Location: Perfs: Formation	Petrotek C Navajo Re Davonia Eddy Cou 10327 - 10 : Unavailab	Corporation Efining Waste nty, NM 0700 ft (MD) le	Disposa	al Well No.	4	Test Date: Gauge Depth: Gauge Type: Gauge SN: Gauge Range Gauge OD:	09/26 - 09/28/2023 : 10307 ft Electronic DC-224831 : 15000 psi 1.2500"	
	Real	Delta			Delta			
Test Date	Time	Time	WHP	BHP	BHP	Temp.	~	
mm/dd/yy	hh:mm:ss	hours	psia	psia	psi	°F	Comments	
09/26/23	22.42.16	0 08917		4684 17	-14 20	109.95		
09/26/23	22:42:26	0.09194		4684.45	-14.22	109.95		
09/26/23	22:42:35	0.09444		4684.43	-14.24	109.96		
09/26/23	22:42:45	0.09722		4684.41	-14.26	109.96		
09/26/23	22:42:56	0.10028		4684.37	-14.30	109.96		
09/26/23	22:43:06	0.10306		4684.35	-14.32	109.96		
09/26/23	22:43:17	0.10611		4684.32	-14.35	109.96		
09/26/23	22:43:28	0.10917		4684.31	-14.36	109.96		
09/26/23	22:43:39	0.11222		4684.30	-14.37	109.96		
09/26/23	22:43:51	0.11556		4684.30	-14.37	109.97		
09/26/23	22:44:03	0.11889		4684.27	-14.40	109.97		
09/26/23	22:44:16	0.12250		4684.25	-14.42	109.97		
09/20/23	22.44.29	0.12011		4084.24	-14.45	109.97		
09/26/23	22:44:56	0.12372		4684 19	-14 48	109.99		
09/26/23	22:45:10	0.13750		4684.17	-14.50	110.00		
09/26/23	22:45:24	0.14139		4684.15	-14.52	110.01		
09/26/23	22:45:39	0.14556		4684.12	-14.55	110.02		
09/26/23	22:45:54	0.14972		4684.10	-14.57	110.03		
09/26/23	22:46:10	0.15417		4684.08	-14.59	110.05		
09/26/23	22:46:26	0.15861		4684.02	-14.65	110.08		
09/26/23	22:46:43	0.16333		4684.04	-14.63	110.10		
09/26/23	22:47:00	0.16806		4684.04	-14.63	110.11		
09/26/23	22:47:18	0.17806		4684.01	-14.66	110.13		
09/26/23	22:47:50	0.1/806		4084.01	-14.00	110.14		
09/26/23	22.47.34	0.10000		4003.99	-14.00	110.10		
09/26/23	22:48:33	0.10001		4683.90	-14.68	110.18		
09/26/23	22:48:54	0.19972		4683.98	-14.69	110.19		
09/26/23	22:49:15	0.20556		4683.97	-14.70	110.20		
09/26/23	22:49:36	0.21139		4683.91	-14.76	110.21		
09/26/23	22:49:59	0.21778		4683.93	-14.74	110.23		
09/26/23	22:50:21	0.22389		4683.91	-14.76	110.24		
09/26/23	22:50:45	0.23056		4683.88	-14.79	110.25		
09/26/23	22:51:09	0.23722		4683.87	-14.80	110.26		
09/26/23	22:51:34	0.24417		4683.86	-14.81	110.27		
09/26/23	22:52:00	0.25139		4683.83	-14.84	110.29		
09/26/23	22:52:26	0.25861		4683.84	-14.83	110.30		

PETROLEU			RES	s 78332	PETROLEUM ENGINEERS						
Company: Well: Field: Location: Perfs: Formation	Company:Petrotek CorporationTest Date:Well:Navajo Refining Waste Disposal Well No. 4Gauge Depth:Field:DavoniaGauge Type:Location:Eddy County, NMGauge SN:Perfs:10327 - 10700 ft (MD)Gauge Range:Formation:UnavailableGauge OD:										
	Real	Delta			Delta		·				
Test Date	Time	Time	WHP	BHP	BHP	Temp.					
mm/dd/yy	hh:mm:ss	hours	psia	psia	psi	°F	Comments				
00/05/02	22 52 52	0.0		4602.00	14.07	110.21					
09/26/23	22:52:53	0.26611		4683.80	-14.87	110.31					
09/26/23	22:53:21	0.27389		4683.78	-14.89	110.32					
09/20/23	22:55:50	0.28194		4083.70	-14.91	110.33					
09/20/23	22:54:50	0.29028		4083.77	-14.90	110.35					
09/26/23	22:54:50	0.29801		4683.74	-14.93	110.30					
09/26/23	22:55:54	0.31639		4683.69	-14.98	110.30					
09/26/23	22:56:27	0.32556		4683.70	-14.97	110.41					
09/26/23	22:57:01	0.33500		4683.64	-15.03	110.42					
09/26/23	22:57:37	0.34500		4683.65	-15.02	110.44					
09/26/23	22:58:13	0.35500		4683.60	-15.07	110.46					
09/26/23	22:58:50	0.36528		4683.60	-15.07	110.48					
09/26/23	22:59:29	0.37611		4683.59	-15.08	110.50					
09/26/23	23:00:08	0.38694		4683.57	-15.10	110.51					
09/26/23	23:00:49	0.39833		4683.54	-15.13	110.53					
09/26/23	23:01:31	0.41000		4683.53	-15.14	110.56					
09/26/23	23:02:14	0.42194		4683.51	-15.16	110.57					
09/20/23	23:02:58	0.43417		4083.49	-15.18	110.59					
09/20/23	23:03:44	0.44094		4083.47	-15.20	110.02					
09/26/23	23.04.31	0.47333		4683.46	-15.20	110.05					
09/26/23	23:06:09	0.48722		4683.40	-15.27	110.69					
09/26/23	23:07:00	0.50139		4683.41	-15.26	110.71					
09/26/23	23:07:52	0.51583		4683.39	-15.28	110.73					
09/26/23	23:08:47	0.53111		4683.36	-15.31	110.76					
09/26/23	23:09:42	0.54639		4683.34	-15.33	110.78					
09/26/23	23:10:40	0.56250		4683.31	-15.36	110.80					
09/26/23	23:11:39	0.57889		4683.29	-15.38	110.83					
09/26/23	23:12:40	0.59583		4683.27	-15.40	110.85					
09/26/23	23:13:43	0.61333		4683.25	-15.42	110.88					
09/26/23	23:14:47	0.63111		4683.24	-15.43	110.91					
09/26/23	25:15:55	0.64944		4085.22	-15.45	110.93					
09/26/23	23:17:02	0.00801		4085.19	-13.48	110.95					
09/20/23	23.10.12	0.00000		4005.17	-15.50	111.00					
09/26/23	23.17.24	0.70800		4683.13	-15.52	111.05					
09/26/23	23:21:55	0.75000		4683.10	-15.57	111.03					
09/26/23	23:23:14	0.77194		4683.06	-15.61	111.11					
07/20/23	23.23.14	0.//194		+005.00	-13.01	111.11					

Æ		• is 78332	ESCO									
PETROLEU	M ENGINEERS		RES	ERVOIR	PRESS	URE FA	ALLOFF TEST	PETROLEUM ENGINEERS				
Company: Well: Field: Location: Perfs: Formation	Company:Petrotek CorporationTest Date:09/2Well:Navajo Refining Waste Disposal Well No. 4Gauge Depth:103Field:DavoniaGauge Type:ElecLocation:Eddy County, NMGauge SN:DCPerfs:10327 - 10700 ft (MD)Gauge Range:150Formation:UnavailableGauge OD:1.25											
	Real	Delta			Delta							
Test Date	Time	Time	WHP	BHP	BHP	Temp.						
mm/dd/yy	hh:mm:ss	hours	psia	psia	psi	° F	Comments					
09/26/23	23.24.35	0 79444		4683.04	-15.63	111 14						
09/26/23	23:25:59	0.81778		4683.03	-15.64	111.14						
09/26/23	23:27:25	0.84167		4683.00	-15.67	111.21						
09/26/23	23:28:53	0.86611		4683.00	-15.67	111.24						
09/26/23	23:30:24	0.89139		4682.97	-15.70	111.28						
09/26/23	23:31:58	0.91750		4682.94	-15.73	111.32						
09/26/23	23:33:34	0.94417		4682.92	-15.75	111.35						
09/26/23	23:35:13	0.97167		4682.89	-15.78	111.39						
09/26/23	23:36:56	1.00028		4682.86	-15.81	111.44						
09/26/23	23:38:41	1.02944		4682.84	-15.83	111.48						
09/26/23	23:40:29	1.05944		4682.82	-15.85	111.52						
09/20/23	23:42:20	1.09028		4082.78	-15.89	111.55						
09/26/23	23.44.13	1.12222		4682.70	-15.94	111.57						
09/26/23	23:48:14	1.18861		4682.73	-15.94	111.68						
09/26/23	23:50:19	1.22333		4682.69	-15.98	111.72						
09/26/23	23:52:28	1.25917		4682.65	-16.02	111.76						
09/26/23	23:54:40	1.29583		4682.63	-16.04	111.79						
09/26/23	23:56:56	1.33361		4682.59	-16.08	111.85						
09/26/23	23:59:16	1.37250		4682.57	-16.10	111.89						
09/27/23	00:01:41	1.41278		4682.54	-16.13	111.94						
09/27/23	00:04:09	1.45389		4682.49	-16.18	112.00						
09/27/23	00:06:42	1.49639		4082.48	-10.19	112.05						
09/27/23	00.09.19	1.54000		4082.44	-10.23	112.11						
09/27/23	00:12:01	1.63139		4682.41	-16.26	112.21						
09/27/23	00:17:39	1.67889		4682.37	-16.30	112.25						
09/27/23	00:20:36	1.72806		4682.33	-16.34	112.30						
09/27/23	00:23:37	1.77833		4682.27	-16.40	112.36						
09/27/23	00:26:44	1.83028		4682.26	-16.41	112.42						
09/27/23	00:29:57	1.88389		4682.22	-16.45	112.48						
09/27/23	00:33:15	1.93889		4682.19	-16.48	112.54						
09/27/23	00:36:38	1.99528		4682.18	-16.49	112.60						
09/27/23	00:40:08	2.05361		4682.13	-16.54	112.66						
09/27/23	00:45:44	2.11301		4082.11	-10.30	112.72						
09/27/23	00.47:20	2.1/328		4002.00	-10.01	112.78						
09/27/23	00.51.15	2.23009		4681.98	-16.05	112.00						
07/21/23	00.55.10	2.30417	I	TU01.90	-10.09	112.73						

RESERVOIR PRESSURE FALLOFF TEST Company: Petrotek Corporation Well: Navajo Refining Waste Disposal Well No. 4 Field: Davonia Location: Eddy County, NM Perfis: 10307 ft Gauge Syn: Disposal Well No. 4 Field: Davonia Location: Eddy County, NM Perfis: 10327 - 10700 ft (MD) Formation: Unavailable Delta BHP psia Delta Gauge Syn: Disposal Well No. 4 0927123 0159:12 2.37139 4681964 - 16.73 113.05 Ogauge Syn: Disposal Well No. 4 0927123 01:16:34 2.66083 4681.84 -16.73 113.05 0927123 01:16:34 2.66083 4681.83 -16.84 113.20 0927123 01:26:02 2.88556 4681.61 -17.00 113.41 0927123 01:36:03 2.98556 4681.61 -17.00 113.71 0927123 01:36:03 2.88556 4681.61 -17.00 113.72	-E				FESCO								
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	PETROLEU	M ENGINEERS		RES	ERVOIR	PRESS	URE FA	ALLOFF TEST	PETROLEUM ENGINEERS				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Company: Well: Field: Location: Perfs: Formation	Company:Petrotek CorporationTest Date:09/26 - 09/2Well:Navajo Refining Waste Disposal Well No. 4Gauge Depth:10307 ftField:DavoniaGauge Type:ElectronicLocation:Eddy County, NMGauge SN:DC-224831Perfs:10327 - 10700 ft (MD)Gauge Range:15000 psiFormation:UnavailableDateDate											
		Real	Delta			Delta							
$\begin{array}{ $	Test Date	Time	Time	WHP	BHP	BHP	Temp.						
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	mm/dd/yy	hh:mm:ss	hours	psia	psia	psi	° F	Comments					
$\begin{array}{c} 09/27/23 \\ 09/27/23 \\ 01.03;22 \\ 2.44083 \\ 2.58528 \\ 4681.94 \\ -16.73 \\ 113.05 \\ 09/27/23 \\ 01:12:02 \\ 2.58528 \\ 4681.94 \\ -16.73 \\ 113.05 \\ 09/27/23 \\ 01:12:02 \\ 2.58528 \\ 4681.80 \\ -16.81 \\ 113.20 \\ 09/27/23 \\ 01:12:14 \\ 2.73861 \\ 4681.83 \\ -16.84 \\ 113.27 \\ 09/27/23 \\ 01:21:14 \\ 2.73861 \\ 4681.83 \\ -16.84 \\ 113.27 \\ 09/27/23 \\ 01:20:14 \\ 2.60083 \\ 4681.83 \\ -16.84 \\ 113.33 \\ 09/27/23 \\ 01:20:14 \\ 2.60083 \\ 4681.83 \\ -16.84 \\ 113.37 \\ 09/27/23 \\ 01:36:30 \\ 2.98556 \\ 4681.61 \\ -17.00 \\ 113.53 \\ 09/27/23 \\ 01:45:40 \\ 09/27/23 \\ 01:45:40 \\ 01.52:12 \\ 3.25472 \\ 4681.61 \\ -17.06 \\ 113.71 \\ 09/27/23 \\ 01:52:12 \\ 3.25472 \\ 4681.51 \\ -17.10 \\ 113.70 \\ 09/27/23 \\ 01:52:12 \\ 3.25472 \\ 4681.51 \\ -17.10 \\ 113.70 \\ 09/27/23 \\ 02:09:49 \\ 3.54833 \\ 4681.46 \\ -17.21 \\ 114.00 \\ 09/27/23 \\ 02:29:01 \\ 3.68833 \\ 4681.46 \\ -17.21 \\ 114.00 \\ 09/27/23 \\ 02:29:01 \\ 3.68833 \\ 4681.40 \\ -17.27 \\ 114.20 \\ 09/27/23 \\ 02:29:01 \\ 3.68833 \\ 4681.40 \\ -17.27 \\ 114.20 \\ 09/27/23 \\ 02:29:01 \\ 3.68833 \\ 4681.29 \\ -17.38 \\ 114.44 \\ 09/27/23 \\ 02:49:57 \\ 4.21722 \\ 4681.24 \\ -17.43 \\ 114.54 \\ 09/27/23 \\ 02:49:57 \\ 4.21722 \\ 4681.24 \\ -17.43 \\ 114.54 \\ 09/27/23 \\ 02:49:57 \\ 4.21722 \\ 4681.24 \\ -17.43 \\ 114.54 \\ 09/27/23 \\ 02:49:57 \\ 4.21722 \\ 4681.81 \\ -17.52 \\ 114.83 \\ 09/27/23 \\ 03:49:57 \\ 4.21722 \\ 4681.94 \\ -17.48 \\ 114.54 \\ 09/27/23 \\ 03:49:57 \\ 4.21722 \\ 4681.94 \\ -17.48 \\ 114.54 \\ 09/27/23 \\ 03:49:57 \\ 4.21722 \\ 4681.94 \\ -17.48 \\ 115.50 \\ 09/27/23 \\ 03:49:5 \\ 5.15833 \\ 4680.99 \\ -17.78 \\ 115.40 \\ 09/27/23 \\ 03:49:5 \\ 5.15833 \\ 4680.89 \\ -17.78 \\ 115.40 \\ 09/27/23 \\ 03:49:4 \\ 5.46389 \\ 4680.89 \\ -17.78 \\ 115.40 \\ 09/27/23 \\ 03:49:4 \\ 5.46389 \\ 4680.89 \\ -17.78 \\ 115.50 \\ 09/27/23 \\ 04:44:45 \\ 5.46389 \\ 4680.88 \\ -17.88 \\ 115.50 \\ 09/27/23 \\ 04:44:46 \\ 6.13083 \\ 4680.88 \\ -17.88 \\ 115.60 \\ 09/27/23 \\ 04:44:46 \\ 6.13083 \\ 4680.88 \\ -17.88 \\ 115.60 \\ 09/27/23 \\ 04:44:46 \\ 6.13083 \\ 4680.88 \\ -17.88 \\ 115.60 \\ 09/27/23 \\ 04:44:46 \\ 6.13083 \\ 4680.86 \\ -17.81 \\ 115.50 \\ 01.50 \\ 01.50 \\ 01.50 \\ 01.50 \\ 01.50 \\ 01.50 \\ 01.50 \\ 01.50 \\ 01.50$	09/27/22	00.50.12	2 27120		4681.06	_16.71	112.00						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	09/27/23	00.39.12 01.03.22	2.37139		4681.90	-16.71	112.99						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/27/23	01:07:38	2.51194		4681.90	-16.77	113.03						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/27/23	01:12:02	2.58528		4681.86	-16.81	113.20						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/27/23	01:16:34	2.66083		4681.83	-16.84	113.27						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	09/27/23	01:21:14	2.73861		4681.80	-16.87	113.33						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/27/23	01:26:02	2.81861		4681.76	-16.91	113.41						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	09/27/23	01:30:58	2.90083		4681.73	-16.94	113.47						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	09/27/23	01:36:03	2.98556		4681.67	-17.00	113.53						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	09/27/23	01:41:17	3.07278		4681.64	-17.03	113.62						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	09/27/23	01:46:40	3.16250		4681.61	-17.06	113.71						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	09/27/23	01:52:12	3.25472		4681.57	-17.10	113.79						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/27/23	01:37:34 02:03:46	3.34972		4081.34	-17.15	113.63						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/27/23	02.03.40 02.09.49	3 54833		4681.51	-17.10	113.94						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/27/23	02:16:02	3.65194		4681.44	-17.23	114.10						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/27/23	02:22:26	3.75861		4681.40	-17.27	114.20						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/27/23	02:29:01	3.86833		4681.34	-17.33	114.26						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/27/23	02:35:47	3.98111		4681.32	-17.35	114.36						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/27/23	02:42:46	4.09750		4681.29	-17.38	114.44						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/27/23	02:49:57	4.21722		4681.24	-17.43	114.54						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/27/23	02:57:20	4.34028		4681.20	-17.47	114.63						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/27/23	03:04:56	4.46694		4681.18	-17.49	114.73						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/27/23	03:12:46	4.59750		4681.15	-17.52	114.83						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/27/23	03:20:49	4./310/		4081.11	-17.50	114.91						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/27/23	03.29.00	5 01194		4681.07	-17.60	115.01						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	09/27/23	03:46:25	5.15833		4680.99	-17.68	115.20						
09/27/23 04:04:45 5.46389 4680.89 -17.78 115.40 09/27/23 04:14:20 5.62361 4680.86 -17.81 115.50 09/27/23 04:24:11 5.78778 4680.83 -17.84 115.60 09/27/23 04:34:19 5.95667 4680.81 -17.86 115.69 09/27/23 04:44:46 6.13083 4680.76 -17.91 115.78 09/27/23 04:55:30 6.30972 4680.72 17.95 115.91	09/27/23	03:55:27	5.30889		4680.96	-17.71	115.31						
09/27/23 04:14:20 5.62361 4680.86 -17.81 115.50 09/27/23 04:24:11 5.78778 4680.83 -17.84 115.60 09/27/23 04:34:19 5.95667 4680.81 -17.86 115.69 09/27/23 04:44:46 6.13083 4680.76 -17.91 115.78 09/27/23 04:55:30 6.30972 4680.72 17.95 115.91	09/27/23	04:04:45	5.46389		4680.89	-17.78	115.40						
09/27/23 04:24:11 5.78778 4680.83 -17.84 115.60 09/27/23 04:34:19 5.95667 4680.81 -17.86 115.69 09/27/23 04:44:46 6.13083 4680.76 -17.91 115.78 09/27/23 04:55:30 6.30972 4680.72 17.05 115.01	09/27/23	04:14:20	5.62361		4680.86	-17.81	115.50						
09/27/23 04:34:19 5.95667 4680.81 -17.86 115.69 09/27/23 04:44:46 6.13083 4680.76 -17.91 115.78 09/27/23 04:55:30 6.30972 4680.72 17.95 115.91	09/27/23	04:24:11	5.78778		4680.83	-17.84	115.60						
09/27/23 04:44:46 6.13083 4680.76 -17.91 115.78 09/27/23 04:55:30 6.30972 4680.72 17.05 115.01	09/27/23	04:34:19	5.95667		4680.81	-17.86	115.69						
1 00/27/23 = 04.55.30 = 6.30072 = 1.4680.72 = 17.05 = 115.011	09/27/23	04:44:46	6.13083		4680.76	-17.91	115.78						
<u>0/2/1/23</u> 0+.33.30 0.30712 4000.12 -11.33 113.31	09/27/23	04:55:30	6.30972		4680.72	-17.95	115.91						
<u>09/27/23</u> 05:06:33 6.49389 4680.68 -17.99 116.01	09/27/23	05:06:33	6.49389		4680.68	-17.99	116.01						
U9/21/23 U5:17:30 0.08301 4080.04 -18.03 110.10 00/27/22 05:20:28 6.97961 4690.50 19.09 116.22	09/27/23	05:20:29	6.08361		4080.64	-18.03	116.10						

Æ	Ĵ[o			FESCO								
PETROLEUT	M ENGINEERS		RES	ERVOIR	PRESS	URE FA	ALLOFF TEST	PETROLEUM ENGINEERS				
Company: Well: Field: Location: Perfs: Formation	Company:Petrotek CorporationTest Date:09/26 - 09/28/202Well:Navajo Refining Waste Disposal Well No. 4Gauge Depth:10307 ftField:DavoniaGauge Type:ElectronicLocation:Eddy County, NMGauge SN:DC-224831Perfs:10327 - 10700 ft (MD)Gauge Range:15000 psiFormation:UnavailableGauge OD:1.2500"											
	Real	Delta			Delta		·					
Test Date	Time	Time	WHP	BHP	BHP	Temp.						
mm/dd/yy	hh:mm:ss	hours	psia	psia	psi	°F	Comments					
0.0/2=/22	0.5.44			4 60 2 7 -	40.10	11.505						
09/27/23	05:41:42	7.07972		4680.55	-18.12	116.33						
09/27/23	05:54:06	7.28639		4680.52	-18.15	116.42						
09/27/23	06:00:32	7 71806		4080.48	-18.19	116.52						
09/27/23	06:33:31	7.94333		4680.44	-18.23	116.05						
09/27/23	06:47:26	8.17528		4680.35	-18.32	116.85						
09/27/23	07:01:46	8.41417		4680.29	-18.38	116.94						
09/27/23	07:16:30	8.65972		4680.26	-18.41	117.06						
09/27/23	07:31:41	8.91278		4680.21	-18.46	117.17						
09/27/23	07:47:17	9.17278		4680.16	-18.51	117.28						
09/27/23	08:03:22	9.44083		4680.10	-18.57	117.39						
09/27/23	08:19:54	9.71639		4680.06	-18.61	117.49						
09/27/23	08:36:56	10.00028		4680.02	-18.65	117.60						
09/27/23	08:54:27	10.29222		4679.98	-18.69	117.71						
09/27/23	09:12:29	10.59278		4679.91	-18.76	117.83						
09/27/23	09:31:02	11.22028		4679.86	-18.81	117.93						
09/27/23	10.00.48	11.22028		4079.83	18.80	118.05						
09/27/23	10:30:02	11.88528		4679.73	-18.09	118.14						
09/27/23	10:50:51	12.23222		4679.67	-19.00	118.35						
09/27/23	11:12:17	12.58944		4679.63	-19.04	118.46						
09/27/23	11:34:20	12.95694		4679.59	-19.08	118.55						
09/27/23	11:57:02	13.33528		4679.54	-19.13	118.66						
09/27/23	12:20:24	13.72472		4679.51	-19.16	118.75						
09/27/23	12:44:27	14.12556		4679.46	-19.21	118.87						
09/27/23	13:09:12	14.53806		4679.43	-19.24	118.95						
09/27/23	13:34:40	14.96250		4679.38	-19.29	119.07						
09/27/23	14:00:53	15.39944		4679.36	-19.31	119.17						
09/21/23	14:27:52	15.8491/		40/9.32	-19.35	119.25						
09/27/23	15.24.12	16 78806		4679.30	-19.37	119.55						
09/27/23	15:53:37	17.27833		4679.25	-19.42	119.56						
09/27/23	16:23:54	17.78306		4679.21	-19.46	119.66						
09/27/23	16:55:03	18.30222		4679.06	-19.61	119.77						
09/27/23	17:27:07	18.83667		4679.02	-19.65	119.85						
09/27/23	18:00:07	19.38667		4679.00	-19.67	119.94						
09/27/23	18:34:05	19.95278		4678.95	-19.72	120.05						
09/27/23	19:09:02	20.53528		4678.90	-19.77	120.14						

	L D			1000	FESC Fesco Ave	O, Ltd Alice, Texa	• 18 78332	EF Ĉ M
PETROLEU			RES	ERVOIR	PRESS	URE FA	ALLOFF TEST	PETROLEUM ENGINEERS
Company: Well: Field: Location: Perfs: Formation	Petrotek C Navajo Re Davonia Eddy Cou 10327 - 10 : Unavailab	Corporation Efining Waste nty, NM 0700 ft (MD) le	e Dispos	al Well No.	4		Test Date: Gauge Depth: Gauge Type: Gauge SN: Gauge Range: Gauge OD:	09/26 - 09/28/2023 10307 ft Electronic DC-224831 15000 psi 1.2500"
Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Delta BHP psi	Temp. °F	Comments	
09/27/23	19:45:01	21.13500		4678.85	-19.82	120.23		
09/27/23	20:22:03	21.75222		4678.80	-19.87	120.32		
09/27/23	21:00:09	22.38722		4678.75	-19.92	120.40		
09/27/23	21:39:23	23.04111		4678.69	-19.98	120.49		
09/27/23	22:19:45	23.71389		4678.62	-20.05	120.57		
09/27/23	23:01:18	24.40639		4678.58	-20.09	120.66		
09/27/23	23:44:03	25.11889		4678.51	-20.16	120.73		
09/28/23	00:28:04	25.85250		4678.46	-20.21	120.82		
09/28/23	01:13:22	26.60750		4678.41	-20.26	120.87		
09/28/23	01:59:59	27.38444		4678.39	-20.28	120.95		
09/28/23	02:47:57	28.18389		4678.36	-20.31	120.98		
09/28/23	03:37:20	29.00694		4678.32	-20.35	121.02		
09/28/23	04:28:09	29.85389		46/8.30	-20.37	121.06		
09/28/23	04:51:00	30.23472		46/8.31	-20.36	121.06	Ended felloff test	
09/28/23	04:51:15	30.23833		40/8.32	-20.35	121.05	Ended failoff test.	
09/28/23	04:51:15	30.23889		4078.27		121.05	ratriava gauga off stop	
09/28/23	04.51.10	30.23917		4078.20		121.03	Terrieve gauge off stop.	
09/28/23	04:52:00	30.25139		4078.23		121.07		
09/28/23	04:54:00	30.28472		4678.22		121.00		
09/28/23	04:55:00	30 30139		4678 29		121.09		
09/28/23	04:56:00	30.31806		4678.22		121.07		
09/28/23	04:57:00	30.33472		4678.23		121.07		
09/28/23	04:58:00	30.35139		4678.21		121.10		
09/28/23	04:59:00	30.36806		4678.23		121.10		
09/28/23	05:00:00	30.38472		4678.23		121.11		
09/28/23	05:01:00	30.40139		4678.26		121.12		
09/28/23	05:02:00	30.41806		4678.23		121.11		
09/28/23	05:03:00	30.43472		4678.22		121.12		
09/28/23	05:04:00	30.45139		4678.24		121.12		
09/28/23	05:05:00	30.46806		4678.23		121.12		
09/28/23	05:06:00	30.48472		4678.25		121.13		
09/28/23	05:07:00	30.50139		4678.27		121.13		
09/28/23	05:08:00	30.51806		4678.25		121.13		
09/28/23	05:09:00	30.53472		4678.27		121.11		
09/28/23	05:10:00	30.55139		4678.22		121.11		
09/28/23	05:10:50	30.56528		4678.25		121.12	POOH making static gradient	stops.
09/28/23	05:10:53	30.56611		4676.10		121.12	BHT increased POOH.	

Æ	Ŝ			1000	FESC Fesco Ave	O, Ltd Alice, Texa	• is 78332	FESCO
PETROLEU	M ENGINEERS		RES	ERVOIR	PRESS	URE FA	ALLOFF TEST	PETROLEUM ENGINEERS
Company: Well: Field: Location: Perfs: Formation	Petrotek C Navajo Re Davonia Eddy Cou 10327 - 10 : Unavailab	Corporation Efining Waste nty, NM 0700 ft (MD) le	e Dispos	al Well No.	4		Test Date: Gauge Depth Gauge Type: Gauge SN: Gauge Range Gauge OD:	09/26 - 09/28/2023 : 10307 ft Electronic DC-224831 : 15000 psi 1.2500"
	Real	Delta			Delta			
Test Date	Time	Time	WHP	BHP	BHP	Temp.		
mm/dd/yy	hh:mm:ss	hours	psia	psia	psi	°F	Comments	
00/28/23	05.11.00	30 56806		4660.67		121.10		
09/28/23	05.11.00 05.11.52	30.50800		4605.07		131.80	BHT resumed decreasing wh	ile POOH
09/28/23	05.11.52 05.12.00	30 58472		4600.77		131.00	Diff resulted decreasing with	
09/28/23	05:12:44	30.59694		4544.34		131.34	Arrived at 10000 ft stop.	
09/28/23	05:13:00	30.60139		4544.33		131.25		
09/28/23	05:14:00	30.61806		4544.44		131.25		
09/28/23	05:15:00	30.63472		4544.51		131.24		
09/28/23	05:16:00	30.65139		4544.58		131.21		
09/28/23	05:17:00	30.66806		4544.54		131.21		
09/28/23	05:18:00	30.68472		4544.54		131.24		
09/28/23	05:18:23	30.69111		4544.54		131.24	Left 10000 ft stop.	
09/28/23	05:19:00	30.70139		4520.18		130.38		
09/28/23	05:20:00	30.71806		4460.00		130.61		
09/28/23	05:21:00	30.75130		4410.10		127.88		
09/28/23	05.22.00	30.75139		4304.03		127.47		
09/28/23	05:24:00	30.78472		4247.25		127.13		
09/28/23	05:25:00	30.80139		4184.07		126.03		
09/28/23	05:26:00	30.81806		4115.55		123.97		
09/28/23	05:26:03	30.81889		4112.23		123.88	Arrived at 9000 ft stop.	
09/28/23	05:27:00	30.83472		4110.40		123.61		
09/28/23	05:28:00	30.85139		4110.30		123.58		
09/28/23	05:29:00	30.86806		4110.27		123.57		
09/28/23	05:30:00	30.88472		4110.25		123.56		
09/28/23	05:31:00	30.90139		4110.23		123.55	T C 0000 C	
09/28/23	05:31:21	30.90722		4110.23		123.55	Left 9000 ft stop.	
09/28/23	05:32:00	30.91800		4078.04		123.20		
09/28/23	05.33.00	30.93472		3981.03		122.09		
09/28/23	05:35:00	30.96806		3927.73		121.01		
09/28/23	05:36:00	30.98472		3882.61		120.38		
09/28/23	05:37:00	31.00139		3832.57		119.72		
09/28/23	05:38:00	31.01806		3771.12		118.86		
09/28/23	05:39:00	31.03472		3704.16		117.67		
09/28/23	05:39:24	31.04139		3677.82		117.00	Arrived at 8000 ft stop.	
09/28/23	05:40:00	31.05139		3676.45		116.77		
09/28/23	05:41:00	31.06806		3676.25		116.75		
09/28/23	05:42:00	31.08472		3676.22		116.73		

Æ				1000	FESC Fesco Ave	O, Ltd Alice, Texa	• is 78332	ESCO
PETROLEU	M ENGINEERS		RES	ERVOIR	PRESS	URE FA	ALLOFF TEST	PETROLEUM ENGINEERS
Company: Well: Field: Location: Perfs: Formation	Petrotek C Navajo Re Davonia Eddy Cou 10327 - 10 : Unavailab	Corporation Efining Waste nty, NM 0700 ft (MD) le	e Disposa	al Well No.	4		Test Date: Gauge Depth: Gauge Type: Gauge SN: Gauge Range: Gauge OD:	09/26 - 09/28/2023 10307 ft Electronic DC-224831 15000 psi 1.2500"
	Real	Delta		DIID	Delta	-		
Test Date	Time hh:mm:cc	Time	WHP	BHP	BHP	Temp. ○F	Commonts	
	111111111155	nours	psia	psia	psi	F	Comments	
09/28/23	05:43:00	31.10139		3676.19		116.72		
09/28/23	05:44:00	31.11806		3676.18		116.71		
09/28/23	05:44:15	31.12222		3676.18		116.71	Left 8000 ft stop.	
09/28/23	05:45:00	31.13472		3641.82		116.37		
09/28/23	05:46:00	31.15139		3595.74		115.81		
09/28/23	05:47:00	31.16806		3550.95		114.77		
09/28/23	05:48:00	31.18472		3504.60		114.35		
09/28/23	05:49:00	31.20139		3463.17		113.46		
09/28/23	05:50:00	31.21800		3423.18		112.80		
09/28/23	05:52:00	31.25472		3334 33		112.33		
09/28/23	05.52.00	31 26806		3285 71		111.75		
09/28/23	05:53:41	31.27944		3242.12		110.54	Arrived at 7000 ft stop.	
09/28/23	05:54:00	31.28472		3241.89		110.37	*	
09/28/23	05:55:00	31.30139		3241.63		110.34		
09/28/23	05:56:00	31.31806		3241.62		110.34		
09/28/23	05:57:00	31.33472		3241.62		110.33		
09/28/23	05:58:00	31.35139		3241.62		110.32		
09/28/23	05:58:09	31.35389		3241.62		110.32	Left 7000 ft stop.	
09/28/23	05:59:00	31.36806		3197.73		109.85		
09/28/23	06.00.00	31.30472		3140.02		109.19		
09/28/23	06:02:00	31 41806		3066.43		108.04		
09/28/23	06:03:00	31.43472		3023.20		107.45		
09/28/23	06:04:00	31.45139		2972.82		106.83		
09/28/23	06:05:00	31.46806		2923.43		106.29		
09/28/23	06:06:00	31.48472		2868.92		105.71		
09/28/23	06:07:00	31.50139		2827.78		105.29		
09/28/23	06:07:24	31.50806		2807.84		105.08	Arrived at 6000 ft stop.	
09/28/23	06:08:00	31.51806		2807.51		105.00		
09/28/23	06:09:00	31.53472		2807.46		104.99		
09/28/23	06:10:00	31.55139		2807.47		104.99		
09/28/23	06.11.00	31.30800		2807.48		104.98	Left 6000 ft stop	
09/28/23	06.12.00	31 58472		2784 97		104.90	Lon 0000 n stop.	
09/28/23	06:12:00	31.60139		2742.41		104.50		
09/28/23	06:14:00	31.61806		2701.38		104.11		
09/28/23	06:15:00	31.63472		2654.43		103.69		

Æ				1000	FESC Fesco Ave	O, Ltd Alice, Texa	• is 78332	ESCO
PETROLEUM	engineers		RES	ERVOIR	PRESS	URE FA	ALLOFF TEST	PETROLEUM ENGINEERS
Company: Well: Field: Location: Perfs: Formation:	Petrotek C Navajo Re Davonia Eddy Cour 10327 - 10 Unavailab	Corporation Fining Waste nty, NM 0700 ft (MD) le	e Disposa	ıl Well No.	4		Test Date: Gauge Depth: Gauge Type: Gauge SN: Gauge Range Gauge OD:	09/26 - 09/28/2023 10307 ft Electronic DC-224831 15000 psi 1.2500"
	Real	Delta			Delta			
Test Date	Time	Time	WHP	BHP	BHP	Temp. °₽	Commente	
mm/aa/yy	in:mm:ss	nours	psia	psia	psı	l F	Comments	
09/28/23	06:16:00	31.65139		2613.87		103.36		
09/28/23	06:17:00	31.66806		2556.05		102.81		
09/28/23	06:18:00	31.68472		2498.23		102.46		
09/28/23	06:19:00	31.70139		2453.16		102.00		
09/28/23	06:20:00	31.71806		2399.58		101.03		
09/28/23	06:20:26	31.72528		2373.49		100.77	Arrived at 5000 ft stop.	
09/28/23	06:21:00	31.73472		2373.15		100.69		
09/28/23	06:22:00	31.75139		2373.17		100.68		
09/28/23	06:23:00	31.76806		23/3.17		100.68		
09/28/23	06:24:00	31.78472		2373.17		100.67		
09/28/23	06.25.05	31.80278		2373.17		100.00	Left 5000 ft stop	
09/28/23	06:26:00	31.81806		2338.05		100.39	Left 5000 ft stop.	
09/28/23	06:27:00	31.83472		2295.38		100.14		
09/28/23	06:28:00	31.85139		2257.70		99.86		
09/28/23	06:29:00	31.86806		2222.23		99.62		
09/28/23	06:30:00	31.88472		2191.18		99.63		
09/28/23	06:31:00	31.90139		2159.54		99.14		
09/28/23	06:32:00	31.91806		2119.13		98.43		
09/28/23	06:33:00	31.93472		2076.44		97.97		
09/28/23	06:34:00	31.95139		2032.41		97.09		
09/28/23	06.35.00	31 98444		1930.10		97.33	Arrived at 4000 ft stop	
09/28/23	06:36:00	31.98472		1939.56		97.21	1 11 1 vou al 7000 îl slop.	
09/28/23	06:37:00	32.00139		1939.31		97.13		
09/28/23	06:38:00	32.01806		1939.28		97.12		
09/28/23	06:39:00	32.03472		1939.29		97.12		
09/28/23	06:40:00	32.05139		1939.28		97.11		
09/28/23	06:41:00	32.06806		1939.29		97.11		
09/28/23	06:41:09	32.07056		1939.28		97.11	Left 4000 ft stop.	
09/28/23	06:42:00	32.08472		1895.84		96.83		
09/28/23	06:43:00	32.10139		1846.56		96.46		
09/28/23	06:44:00	32.11806		1806.82		96.28		
09/20/23	06.45.00	32.13472		1703.43		90.01		
09/28/23	06:47.00	32.15159		1671.61		95.00		
09/28/23	06:48:00	32.18472		1618.30		95.42		
00/20/22	06.40.00	32 20139		1566 10		95 23		

PETROLEU	Engineers		RES	1000 ERVOIR	FESC Fesco Ave PRESS	O, Ltd Alice, Texa URE FA	• as 78332 ALLOFF TEST	PETROLEUM ENGINEERS
Company: Well: Field: Location: Perfs: Formation	Petrotek C Navajo Re Davonia Eddy Cour 10327 - 10 : Unavailab	Corporation fining Wastenty, NM 0700 ft (MD) le	e Disposa	al Well No.	4		Test Date: Gauge Depth: Gauge Type: Gauge SN: Gauge Range: Gauge OD:	09/26 - 09/28/2023 10307 ft Electronic DC-224831 15000 psi 1.2500"
Test Date	Real Time	Delta Time	WHP	внр	Delta BHP	Temp.		
mm/dd/yy	hh:mm:ss	hours	psia	psia	psi	°F	Comments	
00/20/22	06 50 00	20.01005		1510 54		0.1.51		
09/28/23	06:50:00	32.21806		1510.74		94.64		
09/28/23	06:50:05	32.21944		1506.12		94.59	Arrived at 3000 ft stop.	
09/28/23	06:51:00	32.23472		1505.36		94.44		
09/28/23	06:52:00	32.23139		1505.30		94.43		
09/28/23	06:54:00	32.20800		1505.36		94.42		
09/28/23	06:55:00	32.20472		1505.36		94.41		
09/28/23	06:55:10	32 30417		1505.36		94.41	Left 3000 ft stop	
09/28/23	06:56:00	32.31806		1464.84		94.07		
09/28/23	06:57:00	32.33472		1412.11		93.70		
09/28/23	06:58:00	32.35139		1366.08		93.64		
09/28/23	06:59:00	32.36806		1319.60		93.37		
09/28/23	07:00:00	32.38472		1272.58		92.77		
09/28/23	07:01:00	32.40139		1222.09		92.54		
09/28/23	07:02:00	32.41806		1172.20		92.37		
09/28/23	07:03:00	32.43472		1117.97		92.03		
09/28/23	07:03:48	32.44806		1073.52		91.76	Arrived at 2000 ft stop.	
09/28/23	07:04:00	32.45139		1072.96		91.54		
09/28/23	07:05:00	32.46806		1072.27		91.41		
09/28/23	07:06:00	32.48472		1072.22		91.40		
09/28/23	07:07:00	32.50139		1072.20		91.39		
09/28/23	07:08:00	32.51806		1072.20		91.38	L 6 2000 G	
09/28/23	07:08:57	32.33389		1072.19		91.5/	Lett 2000 It stop.	
09/28/23	07:09:00	32.534/2		10/0.14		91.5/		
09/28/23	07:10:00	32.33139		051 00		90.72		
09/20/23	07.11.00	32.50800		901.00		00.79		
09/28/23	07.12.00	32.30472		845.13		90.00		
09/28/23	07.13.00	32.00139		790.25		89.58		
09/28/23	07:15:00	32.63472		731.69		89.23		
09/28/23	07:16:00	32.65139		671.18		88.31		
09/28/23	07:16:29	32.65944		638.33		88.45	Arrived at 1000 ft stop.	
09/28/23	07:17:00	32.66806		638.82		88.56		
09/28/23	07:18:00	32.68472		638.85		88.57		
09/28/23	07:19:00	32.70139		638.84		88.58		
09/28/23	07:20:00	32.71806		638.84		88.58		
09/28/23	07:21:00	32.73472		638.84		88.58		
09/28/23	07:21:13	32.73833		638.84		88.58	Left 1000 ft stop.	

Æ				1000 1	FESC Fesco Ave	O, Ltd Alice, Texa	• as 78332		ESCO
PETROLEU	M ENGINEERS		RES	ERVOIR	PRESS	URE FA	ALLOFF T	EST	PETROLEUM ENGINEERS
Company: Well: Field: Location: Perfs: Formation	Petrotek C Navajo Re Davonia Eddy Cour 10327 - 10 : Unavailabl	Forporation fining Wastenty, NM 1700 ft (MD) le	e Disposa	al Well No.	4			Test Date: Gauge Depth: Gauge Type: Gauge SN: Gauge Range: Gauge OD:	09/26 - 09/28/2023 10307 ft Electronic DC-224831 15000 psi 1.2500"
Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Delta BHP psi	Temp. °F		Comments	
09/28/23	07:22:00	32.75139		585.54		88.33			
09/28/23	07:23:00	32.76806		509.33		91.70			
09/28/23	07:24:00	32.78472		445.49		89.06			
09/28/23	07:25:00	32.80139		378.36		88.89			
09/28/23	07:26:00	32.81806		289.38		89.75			
09/28/23	07:27:00	32.83472		229.55		89.31			
09/28/23	07:28:00	32.85139		204.51		/0.90	C	•	
09/28/23	07:28:11	32.85444		199.15		69.96	Gauge at surf	ace.	
09/28/23	07:29:00	32.86806		196.46		68.82			
09/28/23	07:30:00	32.88472		196.88		68.74			
09/28/23	07:31:00	32.90139		197.09		68.62			
09/28/23	07:32:00	32.91806		197.24		68.45			
09/28/23	07:33:00	32.93472	200	197.21		08.32	Cleard		
09/28/23	07:33:55	32.95000	200	197.34		68.20	Closed crown	n valve.	
09/28/23	07:34:00	32.95139		204.50		08.19	Descarred do	un lubricator	
09/28/23	07:34:04	32.93230		202.84		68.07	Pressured dov	will lubricator.	
09/28/23	07:36:00	32.90000		6.80		67.47			
09/28/23	07.30.00	33 00130		8 10		65 / 2			
09/28/23	07:38:00	33 01806		9.10 9.11		63.91			
09/28/23	07.38.52	33 03250		11 59		62 76	Test complete	ed	
09/28/23	07:40:00	33.05139		11.37		61.66	1 cst complete		
09/28/23	07:45:00	33.13472		12.88		62.24			
09/28/23	07:48:50	33.19861		12.23		64.26	Powered dow	n gauge.	
Remarks:	MIRU sli making in Falloff Tes	ickline. RII njecting gra st. POOH ma	H and adient s aking sta	cleared 10 tops to 1 tic gradient	0307 ft 0307 ft. stops. RD1	with wei Flow v MO.	ight bar. PC vell for 8.6	DOH. RIH with hrs. SI well	h electronic gauge for 30.2-hr BHP
	Job No.: J2	2023100214	01.001A			С	ertified: FE By: <u>Mic</u> Dis	SCO, Ltd Mid chael Carnes strict Manager - (and, TX 432) 332-3211

Attachment 5 Falloff Test Summary



202	DW No. 4 3 Falloff Test Su	ummary
leservoir Properties	5	
Net Pay (h)		330 ft
Porosity (Φ)		25.0 %
Formation Compress	ibility (c _f)	3.50E-06 psi ⁻¹
Total Compressibility	/ (C _t)	6.20E-06 psi ⁻¹
Wellbore Radius (r _w)		0.353 ft
luid Properties		
Viscosity (μ)		0.47 ср
Fluid Compressibility	' (c _f)	2.70E-06 psi ⁻¹
Formation Volume Fa	actor (B)	1.00 bbl/stb
Nodel Parameters		
Wellbore Storage	Changing hege	man
Well Model	Vertical	
Reservoir Model	Homogenous	
Boundary Model	Intersecting fa	ults
Analysis Results		
Well & Wellbore		
Initial Wellbore S	torage	1.40E+00 bbl/psi
Final Wellbore St	orage	1.27E-01 bbl/psi
D _t [changing stora	age]	1.07E-01 hr
Skin		9.1
Reservoir & Boundar	У	
Permeability (k)		2,248 md
Transmissibility		1,573,489 md-ft/cp
Radius of Investig	ation (r _i)	10,790 ft
Fault Distance		983 ft
Fault Angle		102.1 deg

Attachment 6 AOR Well List



Released to Imaging: 11/3/2023 2:26:19 PM
Received by OCD: 10/26/2023 2:11:23 PM

Operator	Well Name	API	Well Type	PLSS Location	Latitude	Longitude	Well Status	Spud Date	Plug Date
Silverback Operating II, LLC	OXY CHARLEMAGNE FEDERAL #001	30-015-30181	Oil	E-26-17S-27E	32.80790	-104.25590	Active	6/23/1998	-
Silverback Operating II, LLC	OXY ROSENKAVLIER FEDERAL #001	30-015-30908	Gas	D-23-17S-27E	32.82510	-104.25580	Active	2/5/2000	-
Silverback Operating II, LLC	OXY VIKING FEDERAL #003	30-015-41340	Gas	K-23-175-27E	32.81860	-104.25250	Active	12/28/1006	-
Silverback Operating II, LLC	YESO VIKING FEDERAL #007	30-015-41425	Oil	N-23-175-27E	32.81350	-104.25070	Active	12/27/2013	-
Silverback Operating II, LLC	YESO VIKING FEDERAL #004	30-015-41341	Oil	J-23-17S-27E	32.81850	-104.24790	Active	7/30/2013	-
Silverback Operating II, LLC	YESO VIKING FEDERAL #008	30-015-41468	Oil	N-23-17S-27E	32.81530	-104.24790	Active	1/4/2014	-
Contango Resources, LLC	TRIGG FEDERAL #001	30-015-30956	Oil	B-26-17S-27E	32.81090	-104.24620	Active	5/1/2000	-
Silverback Operating II, LLC	YESO VIKING FEDERAL #009	30-015-41261	Gas	P-23-1/5-2/E	32.81550	-104.24460	Active	2/9/2014	-
Silverback Operating II, LLC	YESO VIKING FEDERAL #005	30-015-41260	Oil	I-23-175-27E	32.80330	-104.24360	Active	12/9/2013	-
RILEY PERMIAN OPERATING COMPANY, LLC	MATTHEWS 25 FEDERAL #003	30-015-41698	Oil	D-25-17S-27E	32.80960	-104.23980	Active	1/18/2017	-
RILEY PERMIAN OPERATING COMPANY, LLC	MATTHEWS 25 FEDERAL #002	30-015-41721	Oil	E-25-17S-27E	32.80630	-104.23720	Active	4/19/2014	-
Spur Energy Partners LLC	DOGWOOD FEDERAL #003	30-015-39763	Oil	F-25-17S-27E	32.80780	-104.23620	Active	4/6/2012	-
Silverback Operating II, LLC	OXY CHOPSTICKS FEDERAL #002	30-015-31743	Gas	N-24-17S-27E	32.81510	-104.23550	Active	6/4/2001	-
ROVER OPERATING, LLC	BERRY A #033	30-015-25154	Injection	K-24-17S-27E	32.81680	-104.23500	Active	4/1/2003	
RILEY PERMIAN OPERATING COMPANY, LLC	BIG EAGLE 27 FEDERAL #001H	30-015-47052	Oil	L-26-175-27E	32.80450	-104.25620	Active	2/11/2022	-
RILEY PERMIAN OPERATING COMPANY, LLC	EAGLE 27 B FEDERAL #003	30-015-29937	Oil	B-27-17S-27E	32.81150	-104.26550	Active	1/22/1998	-
Murchison Oil and Gas, LLC	MARALO FEDERAL #002	30-015-30532	Gas	G-22-17S-27E	32.82230	-104.26330	Active	12/19/1998	-
Silverback Operating II, LLC	YESO VIKING FEDERAL #002	30-015-41339	Oil	L-23-17S-27E	32.81860	-104.25680	Active	11/6/2013	-
Silverback Operating II, LLC	YESO VIKING FEDERAL #006	30-015-41342	Oil	M-23-175-27E	32.81510	-104.25690	Active	11/28/2013	-
OXY USA WTP LIMITED PARTNERSHIP	YESO VIKING FEDERAL #010	30-015-41870	Oil	1-23-175-27E	32.81750	-104.25500	New	-	-
Redwood Operating LLC	EAGLE 26 L FEDERAL #011	30-015-43689	Oil	L-26-175-27E	32.80340	-104.25440	New	-	-
OXY USA WTP LIMITED PARTNERSHIP	YESO VIKING FEDERAL #028	30-015-41883	Oil	N-23-17S-27E	32.81350	-104.25260	New	-	-
OXY USA WTP LIMITED PARTNERSHIP	YESO VIKING FEDERAL #020	30-015-41877	Oil	K-23-17S-27E	32.81700	-104.25250	New	-	-
Redwood Operating LLC	EAGLE 26 K FEDERAL #010	30-015-43694	Oil	K-26-17S-27E	32.80320	-104.25080	New	-	-
	YESO VIKING FEDERAL #011	30-015-41852	Oil	N-23-1/5-2/E K-23-175-27F	32.81360	-104.25110	New	-	-
OXY USA WTP LIMITED PARTNERSHIP	YESO VIKING FEDERAL #021	30-015-41878	Oil	K-23-175-27E	32.81850	-104.25070	New	-	-
HF Sinclair Navajo Refining LLC	WDW 4 #004	30-015-44677	SWD	K-23-175-27E	32.81610	-104.24990	New	-	-
OXY USA WTP LIMITED PARTNERSHIP	YESO VIKING FEDERAL #030	30-015-41884	Oil	O-23-17S-27E	32.81250	-104.24840	New	-	-
OXY USA WTP LIMITED PARTNERSHIP	YESO VIKING FEDERAL #023	30-015-41880	Oil	J-23-17S-27E	32.81850	-104.24630	New		-
OXY USA WTP LIMITED PARTNERSHIP	YESO VIKING FEDERAL #022	30-015-41879	Oil	J-23-17S-27E	32.81700	-104.24780	New	-	-
OXY USA WTP LIMITED PARTNERSHIP	YESO VIKING FEDERAL #012	30-015-41872	Oil	J-23-1/S-2/E	32.81710	-104.24620	New	-	-
OXY USA WTP LIMITED PARTNERSHIP	YESO VIKING FEDERAL #051	30-015-41874	Oil	0-23-175-27E	32.81520	-104.24750	New	-	-
OXY USA WTP LIMITED PARTNERSHIP	YESO VIKING FEDERAL #017	30-015-41875	Oil	P-23-17S-27E	32.81570	-104.24380	New	-	-
OXY USA WTP LIMITED PARTNERSHIP	YESO VIKING FEDERAL #025	30-015-41882	Oil	I-23-17S-27E	32.81700	-104.24310	New	-	-
OXY USA WTP LIMITED PARTNERSHIP	OXY VIKING FEDERAL #002	30-015-33980	Gas	I-23-17S-27E	32.81740	-104.24300	New	-	-
DXY USA WIP LIMITED PARTNERSHIP	YESO VIKING FEDERAL #013	30-015-418/3	Oil	1-23-1/S-2/E	32.81920	-104.24230	New	-	-
	YESO VIKING FEDERAL #012	30-015-41881	Oil	I-20-1/3-2/E	32.80420	-104.24190	New	-	
Redwood Operating LLC	MATTHEWS 25 FEDERAL #004	30-015-41699	Oil	D-25-17S-27E	32.81130	-104.23760	New	-	-
COG OPERATING LLC	REDBUD FEDERAL #003	30-015-39759	Oil	C-25-17S-27E	32.81060	-104.23590	New	-	-
RILEY PERMIAN OPERATING COMPANY, LLC	EAGLE 26 FEDERAL COM #004H	30-015-49271	Oil	A-27-17S-27E	32.81160	-104.26020	New	-	-
RILEY PERMIAN OPERATING COMPANY, LLC	EAGLE 26 FEDERAL COM #003H	30-015-49270	Oil	A-27-17S-27E	32.80920	-104.26030	New	-	-
RILEY PERMIAN OPERATING COMPANY, LLC	EAGLE 26 FEDERAL COM #001H	30-015-47053	Oil	E-26-17S-27E	32.80570	-104.25990	New	-	-
RILEY PERMIAN OPERATING COMPANY, LLC	EAGLE 27 FEDERAL COM #003H	30-015-49266	Oil	D-26-175-27E	32.81150	-104.25810	New	-	-
Redwood Operating LLC	EAGLE 26 H FEDERAL #009	30-015-43688	Oil	H-26-17S-27E	32.80510	-104.25810	New	-	-
OXY USA WTP LIMITED PARTNERSHIP	YESO VIKING FEDERAL #018	30-015-41876	Oil	L-23-17S-27E	32.81820	-104.25680	New	-	-
OXY USA WTP LIMITED PARTNERSHIP	YESO VIKING FEDERAL #026	30-015-41853	Oil	M-23-17S-27E	32.81320	-104.25730	New	-	-
Spur Energy Partners LLC	ARCO B FEDERAL COM #001 PRE-ONGARD WELL #001	30-015-21047	Gas	L-26-1/S-2/E	32.80350	-104.25590	Plugged (site released) Plugged (site released)	12/31/19/3	1/18/2023
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	30-015-00686	Oil	E-26-175-27E	32.80790	-104.25480	Plugged (site released)	-	-
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	30-015-00583	Oil	E-26-17S-27E	32.80790	-104.25480	Plugged (site released)	-	-
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	30-015-00582	Oil	D-26-17S-27E	32.80970	-104.25480	Plugged (site released)	-	-
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	30-015-00471	Oil	D-23-17S-27E	32.82510	-104.25470	Plugged (site released)	-	-
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #006	30-015-00474	Oil	M-23-17S-27E	32.81340	-104.25480	Plugged (site released)	-	-
ALAMO PERMIAN RESOLICES LLC	PRE-ONGARD WELL #001 BERRY FEDERAL #029	30-015-00584	Gas	F-26-1/S-2/E F-23-17S-27E	32.80610	-104.25050	Plugged (site released) Plugged (site released)	- 1/22/1962	1/30/2013
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #005	30-015-00473	Oil	J-23-175-27E	32.81880	-104.24830	Plugged (site released)	-	-
HANSON ENERGY	BERRY FEDERAL #034	30-015-31113	Oil	G-23-17S-27E	32.82230	-104.24620	Plugged (site released)	5/9/2000	1/18/2008
SDX RESOURCES INC	WODEN FEDERAL #001	30-015-30386	Gas	B-23-17S-27E	32.82500	-104.24620	Plugged (site released)	7/15/1999	8/6/1999
ALAMO PERMIAN RESOURCES, LLC	BERRY FEDERAL #030	30-015-21510	Gas	0-23-17S-27E	32.81430	-104.24730	Plugged (site released)	-	11/30/2012
LIVIE KUCK RESUURCES A, L.P.	TRIGG FEDERAL #002	30-015-31193	0il	G-26-175-27E	32.80600	-104.24620	Plugged (site released)	8/28/2000	10/5/2010
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #014	30-015-00580	Oil	A-26-175-27F	32.80970	-104.24410	Plugged (site released)	-	
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	30-015-00587	Oil	I-26-17S-27E	32.80430	-104.24410	Plugged (site released)	-	-
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #010	30-015-00588	Oil	I-26-17S-27E	32.80240	-104.24410	Plugged (site released)	-	-
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #007	30-015-00475	Oil	P-23-17S-27E	32.81330	-104.24190	Plugged (site released)	-	-
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #015	30-015-00586	Oil	H-26-17S-27E	32.80600	-104.24190	Plugged (site released)	-	-
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	30-015-00579	Oil	A-26-1/5-2/E P-1/1-175-27E	32.81180	-104.24150	Plugged (site released) Plugged (site released)	-	-
Redwood Operating LLC	MATTHEWS 25 FEDERAL #001	30-015-40804	Oil	E-25-17S-27E	32.80650	-104.23980	Plugged (site released)	11/8/2012	5/2/2023
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	30-015-00440	Oil	M-13-17S-27E	32.82770	-104.23970	Plugged (site released)	-	-
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #036	30-015-31179	Oil	D-24-17S-27E	32.82230	-104.23800	Plugged (site released)	-	-
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #003	30-015-00519	Oil	E-25-17S-27E	32.80600	-104.23760	Plugged (site released)	-	-
ALAMO PERMIAN RESOURCES, LLC	BERRY FEDERAL #027	30-015-00483	Gas	E-24-17S-27E	32.82230	-104.23760	Plugged (site released)	-	12/13/2011
OXY LISA WTP LIMITED PARTNERSHIP	OXY CHOPSTICKS STATE COM #001	30-015-00497	Gas	F-24-175-27E	32.81870	-104.23550	Plugged (site released)	6/15/1999	4/2/2012
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #019	30-015-00499	Oil	K-24-175-27E	32.81690	-104.23460	Plugged (site released)	-	-
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	30-015-01532	Oil	N-24-17S-27E	32.81410	-104.23440	Plugged (site released)	-	-
ALAMO PERMIAN RESOURCES, LLC	BERRY A #011	30-015-00498	Gas	K-24-17S-27E	32.81680	-104.23330	Plugged (site released)		11/29/2021
SDX RESOURCES INC	BERRY A #021	30-015-01239	Oil	K-24-17S-27E	32.81870	-104.23330	Plugged (site released)	-	3/24/2000
	PRE-ONGARD WELL #002	30-015-32614	Gas	B-2/-175-27E	32.80900	-104.26450	Plugged (site released)	5/22/2003	6/13/2003
SDX RESOURCES INC	BERRY A #031Y	30-015-21443	Qil	G-22-1/5-2/E G-22-175-27F	32.81450	-104.26440	Plugged (site released)		6/20/2000
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #031	30-015-21569	Oil	E-22-17S-27E	32.82140	-104.26440	Plugged (site released)	-	-
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	30-015-00470	Oil	H-22-17S-27E	32.82050	-104.26120	Plugged (site released)	-	-
Redwood Operating LLC	EAGLE 27 FEDERAL #001	30-015-29936	Oil	A-27-17S-27E	32.81160	-104.26070	Plugged (site released)	10/15/1998	12/23/2021
COG OPERATING LLC	RJ UNIT #105	30-015-29803	Oil	A-27-17S-27E	32.81090	-104.25910	Plugged (site released)	12/11/1997	10/16/2014
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	30-015-30795	Gas	1-22-1/S-27E	32.81750	-104.26010	Plugged (site released)	12/10/1999	2/2//2007
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	30-015-00458	Oil	P-15-17S-27F	32.81070	-104.25910	Plugged (site released)	-	
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	30-015-00581	Oil	D-26-17S-27E	32.81160	-104.25690	Plugged (site released)	-	
PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	30-015-00454	Oil	M-14-17S-27E	32.82780	-104.25680	Plugged (site released)	-	-

Attachment 7 Digital Data



.

Released to Imaging: 11/3/2023 2:26:19 PM

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

COMMENTS

Operator:	OGRID:
HF Sinclair Navajo Refining LLC	15694
ATTN: GENERAL COUNSEL	Action Number:
Dallas, TX 75201	279799
	Action Type:
	[C-103] Sub. General Sundry (C-103Z)
COMMENTS	

COMMENTS

	Created By	Comment
ſ	cchavez	WDW-4 Fall Off Test (FOT) 2023 Final Report

COMMENTS

Action 279799

Comment Date 11/3/2023

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:	
HF Sinclair Navajo Refining LLC	15694	
ATTN: GENERAL COUNSEL	Action Number:	
Dallas, TX 75201	279799	
	Action Type:	
	[C-103] Sub. General Sundry (C-103Z)	
	•	

CONDITIONS

Created By	Condition	Condition Date
cchavez	None	11/3/2023

CONDITIONS

Page 76 of 76

Action 279799